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THE CHEMIST AND DRUGGIST

ESTABLISHED 1859

The weekly newspaper for pharmacy and all sections of the drug, pharmaceutical and fine chemical, cosmetic, and allied industries

Official organ of the Pharmaceutical Society of Ireland and the Pharmaceutical Society of Northern Ireland

Volume 175

May 20, 1961

No. 4240

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The CHEMIST AND DRUGGIST

Volume 175

MAY 20, 1961

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Council Voting Shocks THREE MEMBERS REPLACED

At the election of seven members to the Council of the Pharmaceutical Society on May 17 members returned at the head of the poll a former member defeated when he last stood and voted on two other challengers place of existing Council members.

THE NEW MEMBERS



Mr. H. J. Graves.



Mr. H. Williams.



Mr. P. G. Flood.

Mr. Graves is back again top of the poll after an absence.

The figures were:

ELECTED

GRAVES, H. J.	5920
MAPLETHORPE, C. W.	5775
REID, T.	5461
WILLIAMS, H.	5456
TRISTRAM, W. J.	5330
FLOOD, P. G.	5169
JACKSON, M.	5152

NOT ELECTED

Robinson, C. H. P.	4955
Holland, K.	4953
Martin, T. P.	4708
Kent, E. T.	4554
Hudson, D. W.	4448
Park, W. A.	3372

Voting papers issued numbered 231; 11,936 were returned, of which forty-eight were disallowed, leaving 888 to be duly registered.

Retail Sales

BOARD OF TRADE STATISTICS

RECENTLY issued Board of Trade figures show that sales of chemists' goods by independent retailers were 2 per cent. higher in March than in February and 11 per cent. higher than in March 1960. Multiple retailers' sales were 5.5 per cent. higher in March compared with February and 13.5 per cent. higher than in March 1960. Sales of Co-operative Societies were 2.6 per cent. higher than in February and 12.5 per cent. higher than in March 1960. The figures do not allow for receipts under the National Health Service.

Patented Drugs

INDUSTRY'S "GRAVE MISGIVINGS" OVER HEALTH MINISTERS' STATEMENT

REPLYING to a question by Mr. John Arbuthnot in the House of Commons on May 17, the MINISTER OF HEALTH (Mr. Enoch Powell) said that he and the Secretary of State for Scotland proposed to use Section 46 of the Patents Act 1949 in obtaining certain drugs for the hospital service. The Section enables a Government Department to use patented goods for the services of the Crown. The Act requires payments to patentees to be negotiated or, in default of agreement, determined by the High Court. Individual hospital authorities are being instructed to make no further purchases of patented drugs from unlicensed sources.

The Association of British Pharmaceutical Industry was prompt to react. At 5.30 p.m. on May 17 it issued to the Press a statement expressing grave misgivings at the Ministers' decision to use Section 46 of the Patents Act as a basis for Government purchase of selected drugs for the hospital service. If that action were to have the effect of so reducing prices as to make prohibitive the maintenance of research and development expenditure, the Association believed that it would be impossible for the industry to maintain its international competitive position. The Association considered, therefore, that it was essential for satis-

factory administrative procedures to be agreed between the Health Departments and the industry to ensure that the originator of a new product received an adequate reward for the Crown use of his invention.

The Association would undertake a full study of all the implications of the Ministers' action, and would issue a further statement in due course.

Thyroxine in Tablets

"DOUBTFUL ACCURACY" OF B.P. TEST

LONDON Executive Council recently considered analysts' reports on a sample of thyroid tablets found by its own analyst to contain thyroxine to the extent of 0.049 per cent. of the stated amount of thyroid, when the Pharmacopoeial limits were 0.085-0.115 per cent. The chemist's own analyst had found 0.09 per cent. and the Government chemist 0.058 per cent. present respectively in the other one-third parts of the sample. The chemist's analysts wrote that they were fully confident that the findings given on their certificate were correct. The manufacturers sent in a summary of the findings of several analysts on assays of (a) tablets remaining in the chemist's bottle after the dispensing of the test prescription; (b) a sample of thyroxine sodium in tablet excipients, and (c) samples of a common hydrolysate. They said that the lack of agreement by the Council's and the chemist's analysts and the Government chemist gave a reasonable basis for doubting the efficiency of the B.P. method of assay; that the various analysts had failed to get agreement on sample (a); that the recovery of only 19 per cent. of thyroxine from sample (b) indicated that substances other than thyroxine must be co-precipitated with it; and that there had been failure to get consistent results on (c). In a later report the manufacturers summarised other tests, confirming their opinion that the B.P. assay method failed to give consistent results. They gave their opinion that lactose, a permitted diluent, was undesirable; and that, because of filtration difficulties associated with the handling of a drug, as well as tablet excipients of a colloidal nature, and because of the small quantity of iodine to be determined, the assay directions of the B.P. should be more precise and detailed. The committee, in its findings, stated that the bottle had been stored in good conditions in the pharmacy; and that the findings, summaries and conclusions in the reports sent by the manufacturers showed that the method of assay in the B.P. monograph failed to give consistent results. There was at least some doubt as to whether the method was reliable. The Committee recommended dismissing the case.

Whitley Council "B"

AWARDS TO ASSISTANTS-IN-DISPENSING

A NEW scale of salaries has been agreed for assistants-in-dispensing working in hospitals in the National Health Service. The details are incorporated in PTB Circular 127, which states that the new rates are operative from February 1 and that the scales set out in PTB Circulars 108 and 97 are consolidated and superseded.

The new scale is as follows and applies to "officers whose duties consist substantially of the preparation and compounding of therapeutic agents and the execution of prescriptions":—

Age 16, £195; 17, £215; 18, £250; 19, £285; 20, £320; 21, £360; £22 and over £425 with five annual increments of £20, followed by two of £25 to £575. The London weighting is:—Age 16-20, £10 per annum; age 21-25, £20; age 26 and over, £30. A qualification allowance of £50 per annum is due to an assistant-in-dispensing aged 18 or over who holds the certificate of the Society of Apothecaries of London, or the dispensing certificate of the R.A.M.C., or R.A.F., or a qualification approved by the Minister of Health or Secretary of State for Scotland or a certificate of proficiency given by an employing authority in Scotland. When responsible for dispensary supplies and not supervised by a pharmacist the assistant receives £25 per annum (£50 if also responsible for supervising other assistants) with an added £50 per annum if exercising an authorisation to possess and supply Dangerous Drugs under Regulation 10 (2) of the Dangerous Drugs Regulations, 1953. Temporary duty of one month or more entitles to proportionate payment. Attendance at evening clinics in addition to normal 39-hour week is paid at the rate of 6s. per hour, which is the rate for part-time staff working 18 or less hours per week. Assistants up to twenty-one years of age are entitled to twelve working days' annual leave. Those over twenty-one receive eighteen working days.

Animal Feeding Stuffs

ADDITIVES REQUIRED TO BE DECLARED

THE Compound Animal Feeding Stuffs Manufacturers' National Association, National Association of Corn and Agricultural Merchants, National Association of Provender Millers and National Council of Concentrate Manufacturers have published the names of additional substances, of the presence of which in feeding stuffs members make a voluntary declaration. The new items have come into use since the scheme was first announced in April 1959. They are:—*Coccidiostats*: zoalene, amprolium, trithiadol, sulphadimidine, sulphaguanidine, sulphaquinoxaline. *Antiblackhead drugs*: nithiazide. Sulphonamides are included in the scheme because feeding stuffs containing not more than 0.5 per cent. of them are now exempted from the Poisons Acts and Rules and are not, therefore, covered by legislation. The original scheme, which was agreed with the Ministry of Agriculture, Fisheries and Food, came into operation in 1959 to meet the need for farmers and veterinary surgeons

to know what additives are administered to livestock in the course of normal feeding.

"Value for Money"

PRaise FOR PHARMACEUTICAL INDUSTRY

IN his recent report to the Walsall Executive Council, the chairman (Dr. F. L. Richard) said the time had come for people to realise that the British drug industry was giving superb value for money. It should be encouraged to continue doing so instead of being criticised, restrained and browbeaten. "The pharmaceutical services during the year 1959-60 are estimated to have cost the Government £76 millions. This is less than one penny per head of population per day. . . . Those figures do not provide any evidence that the rise in the cost of the national drug bill has been disproportionate or excessive." Referring to the local pharmaceutical service, Dr. Richard said he was pleased to note that, in addition to their normal rota arrangements providing for a daily service between 6 and 7 p.m., a number of Walsall chemists had agreed to attend their pharmacies after hours, if necessary, to dispense prescriptions marked "urgent" and initialled by a doctor.

Glass Container Sales

RECORD LEVEL IN 1960

SALES of glass bottles and jars by British manufacturers in 1960 once again improved on the previous year's figures, attaining a record level of 4,468 million units—an increase of 7.5 per cent. over sales in 1959 and of 43 per cent. over the ten years since 1950. The pharmaceutical industry absorbed 798 million units (25 per cent. more than in 1950) and the toilet and perfumery trade another 359 million units (40 per cent. up on 1950).

Southampton Blaze

HEAVY DAMAGE TO CHEMICAL WORKS

THE warehouse of Herbert Ferryman, Ltd., Priory Road, Southampton, wholesale chemists, was the scene of a disastrous fire on May 15 when damage estimated at £50,000 was sustained. A large quantity of Dangerous Drugs was, however, salvaged.

Dangerous Drugs Act

AUTHORITIES WITHDRAWN

THE Home Secretary has withdrawn from Dr. Roy Wilfrid Downie, 88 Comely Bank Avenue, Edinburgh, 4, the authorities to possess, supply or prescribe dangerous drugs.

SCOTTISH NEWS

Edinburgh Degree Course

HOPES OF LINK WITH SOCIETY'S DIPLOMA

GOVERNORS of Heriot-Watt College, Edinburgh, were told at their meeting on May 12 that discussions have taken place between the college authorities, Edinburgh University and the Pharmaceutical Society regarding the introduction of degree courses in pharmacy at Edinburgh. At present the city caters only for the Pharma-

ceutical Chemist diploma course, talks are in progress to determine whether an honours degree can be substituted by linking the diploma syllabus with the University's requirements for entry into courses leading to M.Sc. and Ph.D. qualifications. This step is being taken because, owing to lack of accommodation, the university is unable to foresee the start of its ordinary degree course in pharmacy before 1968.

A Campaign Succeeds

MORE DUNDEE CHILDREN BRUSH TEETH

RESULTS of a "Happy Smile" dental campaign in Dundee show that 75 per cent of five- and six-year-old children now clean their teeth at least twice a day at the recommended times—after breakfast and last thing at night—against 36 per cent. before the campaign began. There has been a marked change for the better in the condition of their mouths and gums, and few children are now without a tooth-brush. Tooth-brush sales in Dundee are, in fact, estimated by pharmacists to have risen by about 50 per cent. and toothpaste sales by slightly less. The campaign was experimental. It was arranged by Dundee Corporation at the request of the Scottish Standing Committee of Dental Health Education and was backed by the Department of Health for Scotland.

IRISH NEWS

THE REPUBLIC

Dublin Conference

SMALL FACTORY HEALTH SERVICES

THE provision of health services for small industrial concerns and the different ways of organising such services as have been developed in various parts of Europe, have been studied at a conference at Dun Laoghaire, co. Dublin, May 8-16. The conference was called jointly by the regional office for Europe of the World Health Organisation and the International Labour Organisation, and about forty experts including representatives of employers and workers' organisations from twenty-two countries, participated.

IRISH BREVITIES

THE NORTH

THE Ulster Hospital for Children and Women is being replaced by a new £2½-million Ulster Hospital at Dundonald, Belfast.

THE REPUBLIC

THE Association of Hospital and Public Pharmacists has acquired new premises at 39 St. Patrick's Road, Drumcondra, Dublin, to which all correspondence should be addressed.

At a meeting held in Dublin recently of the Committee of the Association of Hospital and Public Pharmacists, it was announced that the scale of salaries, as agreed at the general meeting, had been submitted to the County Managers Association and the Hospitals Commission, and that discussions had already been held with the Dublin Health Authority in connection with the claim.

NEWS IN BRIEF

PHARMACY is included in a new forty-page careers guide issued to school-leavers by the youth employment committee of Hull, Yorks.

Mr. A. S. Cussons has been elected chairman of the Toilet Preparations Federation and Messrs. V. A. Beetch and G. S. Sladden have been elected vice-chairmen.

THE sixth International Plastics Exhibition and Convention (Interplas 61), which is to be held at Olympia, London, June 21 to July 1, is being opened by Lord Hailsham at 12 noon on June 21.

THE following officers of the Fine Chemicals Group of the Society of Chemical Industry have been re-elected: chairman, Dr. A. C. Newman; Vice-chairmen, Dr. J. D. Kendall, Dr. J. H. Wilkinson; Treasurer, Dr. W. Mitchell; Recorder, Dr. E. P. Taylor; Secretary, Dr. D. S. Morris.

A TUNBRIDGE Wells team, of which Miss M. Wallis, M.P.S., was a member (see C. & D., February 4, p. 111), beat Broadstairs in the final round of "Beat Your Neighbour," the Southern Independent Television quiz. The £500 prize is being used to benefit the old folk of Tunbridge Wells.

CHARGES for National Health Service spectacles and artificial teeth were increased on May 16. Bifocal lenses now each cost £1 (10s. previously) and other lenses 12s. 6d. (10s.). Lenses in N.H.S. frames are available free to children aged ten to fifteen years, or older if still at school (but not if undergoing further education).

PETERBOROUGH and District Trades Council has adopted a resolution recommending improved dispensing facilities in the city, with emphasis on after closing and better service at holiday periods. One member complained that the rota list is not always kept up to date and that a copy cannot always be consulted in doctors' surgeries.

SPORT

GOLF.—ULSTER CHEMISTS' GOLFING ASSOCIATION, at Clondeboy Golf Club on May 10. Results: Groves Cup Competition, 1, C. J. Hall, 42; runner-up, W. J. Moffet, 39; Section A: J. McErlane, 34; Section B: J. Kennedy, 37; Section C: B. Lowans, 39.

LOCAL OFFICERS

NATIONAL PHARMACEUTICAL UNION

Epsom and Sutton.—Chairman, A. R. Miles; Vice-chairman, R. B. Summers; Social committee chairman, C. Crookes; Social secretary, J. H. Heard; Secretary and Treasurer, W. S. Coleman, 147 Cobham Road, Fetcham, Leatherhead, Surrey.

PHARMACEUTICAL SOCIETY

Liverpool Branch.—Chairman, H. Humphreys; Vice-chairman, A. L. Saul; Treasurer, J. L. Rees; Committee, R. Clitherow, J. C. Leigh, D. L. Rees, A. L. Saul; Secretary, W. G. Fowler.

Plymouth Branch.—Chairman, H. G. Reynolds; Vice-chairman, P. L. Cohen; Treasurer, P. Fox; Social treasurer, E. W. Chanter; Social secretary, W. F. Eustace-Pedlar; Secretary, A. G. M. Madge, c/o P.C.S. Pharmacy Office, Vauxhall Street, Plymouth.

Swansea and West Glamorgan Branch.—Chairman, I. James; Vice-chairman, G. G. Davies; Treasurer, W. J. Pierce; Secretary, G. Easter, 58 Glanbrydan Avenue, Uplands, Swansea, Glam.

TOPICAL REFLECTIONS

By Xrayser

Malvern crossroads

Malvern, I understand, owes its celebrity to its springs, and to its clear, dry and equable climate. It is said, also, to be the centre of the first hydro-pathic establishment in the United Kingdom. Taken all in all, the venue was well chosen for the administration of the shock treatment that was meted out to those attending the area conference of the National Pharmaceutical Union on May 7 (p. 482). What Mr. Wright chose to describe as "the present state of negotiations with the Ministry," on the question of the contractors' terms of service, reveals further evidence of official inability to interpret two important words. One of these is "negotiation" and the other "consultation." (Perhaps the dictionary in use reads, under each heading, "see dictation.") The patience and forbearance of the contractor has been sorely tried. So long as there appeared to be some expectation of agreement—if that situation ever really existed—so long it must have seemed to pharmacy's representatives that no good could come of premature disclosure of the so-called negotiations. The whole basis of the discussion was, of course, completely upset by the imposition, without consultation, of the 2s. levy, as Mr. Wright pointed out to the meeting. A decrease of 13 per cent. in the number of prescriptions dispensed in March constituted a cut, and a new threat by the Ministry to look at the question of remuneration again in three months' time only if Drug Tariff prices are reduced first is a second unilateral cut that has proved to be quite unacceptable to the Central N.H.S. Committee. Now is the time to inform contractors of the sorry story in detail. The resolution passed by the meeting at Malvern gives full authority for drastic action. Armed with that authority, and smarting under what the Committee can only feel is a shocking breach of faith, the Ministerial lion may now discover that the pharmaceutical lamb has changed character. There are many duties undertaken by the pharmacist for which there is no return. Renunciation of such unremunerative employment would not upset the contractor.

Resentment

Only a feeling of deep resentment, one feels, could have goaded the meeting at Malvern into asking for "an early, honest settlement" of contractors' just claims. The word honest would surely not have appeared in the resolution if those present, both on the platform and in the audience, had not felt that there was something—if not dishonest—at least dishonourable in the high-handed attitude of the Ministry. You rightly draw attention, in your editorial comment on p. 491, to the need for full solidarity and support from the whole of the Union's membership. The Committee will also realise the importance of united action by all who take part in the pharmaceutical service, not only members of the Union; and it seems, from a reply given by Mr. Wright to a question, that so far there is complete agreement on all sides. That position must be maintained.

London and Edinburgh

Last week's issue gives accounts of activities both of the Pharmaceutical Society's Council in London and its Scottish Department in Edinburgh. In London, the apparent inactivity of some branch secretaries moved Mr. D. Hudson to use strong words of condemnation. It appears that eighty branch secretaries did not attend the annual meeting of branch secretaries in October 1960. On being written to, over fifty "had not sufficient interest or courtesy to reply." Mr. Hudson thought that to be an extraordinary state of affairs and very reprehensible. Branch secretaries, in my experience, do a good job. Many are dependent on locums if they leave their businesses for a day, and such relief is not easily come by these days. Sympathy, rather than castigation, might have been a better approach. From Edinburgh I note a reported decision to erect window boxes on the ground and first floor window sills. With a suitable selection of plants we may yet see examiner and candidate perched precariously on ladders, identifying such ornamental and innocuous plants as the opium poppy, Indian hemp and, perhaps, *Datura stramonium*. I would not recommend valerian.

IRISH REPRESENTATIVES' ASSOCIATION

Annual meeting in Dublin

THE Irish Pharmaceutical and Medical Representatives' Association, at its annual meeting in Dublin on April 7, had before it a letter from Mr. B. Smith (secretary, Irish Drug Association). The letter stated that, at a recent meeting of the West of Ireland Association, and at a delegates' meeting attended by representatives of each local Association in Athlone, the opinion was expressed that there was excessive sampling of the medical profession, particularly with long-established lines, and suggesting that the practice should be curtailed. In view of that the Association felt that retail pharmacists should be supplied with samples, particularly in the case of new lines. Mr. J. J. McKenna (president), said the committee felt that was not a matter for them to decide, and left it to members to take what action they desired.

The Key Word

Mr. M. F. WALSHE (secretary) said if excessive sampling was wrong in principle, it was equally wrong to give samples to chemists. THE PRESIDENT: "The key word is 'excessive.'" He thought the Association was right in stating that to a certain extent there was excessive sampling. He suggested that individual members might take it up with their respective companies.

Mr. A. G. STOCKWELL considered that the members of the Representatives' Association were the best judges of what was excessive sampling. That was not a matter for the I.D.A.

Mr. D. JACKSON was in favour of limiting samples to one sales pack. He had seen as many as seven or eight packs left with doctors.

THE PRESIDENT said it had been mentioned by certain chemists that doctors had sold sample packs below normal retail prices. To leave over half a dozen packs with a doctor at each visit of a representative called for some kind of protest.

Mr. P. J. MARTIN asked why chemists were anxious to get packs of new lines, seeing that the doctors could give them samples to tide them over until the products arrived on the market.

Mr. STOCKWELL thought it could be arranged that one sample of a new product be left in each town with a selected chemist.

While Mr. JACKSON had sympathy with the chemists because of the multiplicity of new preparations, the time had come when companies should take back from the chemist new packs not prescribed. Manufacturers would also have to "give way on dated products."

THE PRESIDENT wanted to see the stipulation that the chemist must return the product not later than a month from the time of receipt.

It was agreed to ask local associations to take the matter up with the various companies, and the representatives undertook to convey to the companies the feeling of the I.D.A.

THE PRESIDENT, in his annual report, recalled that the Association was now registered under the Friendly Societies Act, which meant that, from July 27,

1960, they were legally entitled to implement their constitution. It was hoped to draw up a code of ethics.

Mr. McKenna said the registrar of the Pharmaceutical Society of Ireland had written thanking the Association for its contribution to the College of Pharmacy Trust Fund. He asked representatives of companies who had not yet made a contribution to the fund to encourage them to support it.

Mr. WALSHE (secretary), in his annual report said that membership at the end of 1960 was 125, against 137 the previous year. Associate members numbered seventy-four against ninety members the previous year. Mr. P. CUMMINS (treasurer) disclosed a credit balance at the end of the year of £85.

REPUBLIC OF IRELAND POISONS BILL

Second reading

THE Poisons Bill was given the second reading in the Senate on April 19 and the Committee Stage was fixed for the next sitting day of the House.

In the debate the Minister for Health (Mr. S. MACENTEE) described the considerations which had shaped the provisions of the Bill as being the needs for flexibility; for more rapid action when called for; for larger powers to regulate (for the greater safety of the public) the sale, use and distribution of deadly substances; and for a wider range of advisers. While the rather limited functions under the 1870 Act had been satisfactorily discharged by the College of Physicians, he felt that, with the development of numerous new synthetic poisons for use, not only in medicine, but also in industry and agriculture, a more broadly based advisory body was desirable. A grave defect in the present law was that while, under the 1870 Act, a procedure existed for the addition of poisons to the schedule, there was no provision for deleting any preparation from it or for bringing the nomenclature up to date. Nor could a poison, once it had been included in one part of the schedule, be transferred to the other.

Mr. DONEGAN said that, while it was important that the use of new weed-killers, vaccines and other medicines should be regulated, it was also important that farmers should enjoy them at the existing low rate of profit. His impression was that, in relation to agricultural preparations, the Bill could be administered in a lax fashion.

Mr. S. O'DONOVAN said it was wrong to suggest that farmers would be victimised by veterinary surgeons.

Mr. MURPHY said he would like to see the people who came in contact with those drugs represented on the council.

Dr. SHEEHY-SKEFFINGTON said he felt that, if the source of supply under the Bill were to be restricted too narrowly, particularly to a trade in which there was no regulation of the price mechanism, except by those engaged in it, the farmer might possibly suffer from the disappearance of price competition.

Mr. L'ESTRANGE thought it was gen-

Messrs. Flanagan, Gallagher, Meehan and McKenna (four retiring members were eligible for re-election, but Mr. Meehan asked for his name to be omitted from the ballot list. Messrs. T. Lyons, Cork, and J. Dobbs, with the other three candidates, were selected to contest the postal vote for the four vacant seats. Mr. B. McWEY said there was dissatisfaction among Association members because they were not invited to the annual meeting.

THE PRESIDENT said that to allow them to attend would mean altering the constitution.

Mr. C. McDERMOTT suggested that some special disc or badge should be displayed on members' cars so that they would be spared the embarrassment of calling on a doctor when another representative was there. The matter was referred to the Committee for investigation.

erally agreed that the rules governing the control and sale of poison were completely out of date, and that a more modern code was necessary. Welcoming the sections which dealt with the sale of tranquillisers or "pep" pills he said they all knew the bad effect those compounds could have—especially on young people. He believed that, if the sale of drugs were confined to a few people or if only veterinary surgeons were allowed to purchase them, then the cost to the farmer would be much greater. The majority of chemists were competent to discuss the various drugs for animal ailments, and the present practice of farmers treating their animals with medicines purchased from the chemists was proving successful, even though some Senators might say that chemists were not trained to diagnose animal diseases and that that was the sphere of the veterinary surgeon.

Mr. O'REILLY said the majority of farmers knew there was no intention of prejudicing their interests under the Bill, and it was wrong to suggest that groups like chemists and veterinarians were in league to mulct the farmers.

Mr. J. L. O'SULLIVAN asked the Minister to be as lenient as possible and ensure that the farmers would be able to get the drugs from those sources which they had previously obtained them.

Replying, the MINISTER said that the new synthetic substances which were coming on the market almost daily were "much more virulent." Were they to be freely bought and sold, without any control or restriction? It was essential for the protection of the citizens that the sale and distribution of those substances should be controlled under the aegis of the Minister for Health. The Council was not an elected body representative of any vested interest. Because there were so many representatives of medicine and of the Pharmaceutical Society upon it, that did not mean that they would be appointed in order to load the Council or give it a bias. "This is not a body which will be representative of any vested interest. The Minister must be free to select his own advisers, provided they fulfil certain qualifications."

First Fifty Years . . .

A HERTFORDSHIRE PHARMACIST'S PROGRESS

To survive in pharmacy for fifty years might be regarded as something of an achievement. Eardley Edward Russell, pharmacist, wholesaler, manufacturer, chairman



Mr. E. E. Russell.

of three companies—has not merely persisted but prospered. A few weeks ago Mr. Russell celebrated the Golden Jubilee of the opening of his first shop. Marking the event, amid other celebrations, by opening at Buntingford, Herts, a new branch —

to make seventeen in all — of E. E. Russell (Chemists), Ltd. At the same time he presented £2,000 in bonuses to long-service employees of the company, announced another record business year, and sat for his portrait. Without having become a telephone-sieged business "tycoon," Mr. Russell has come a long way from his precarious beginnings in pharmacy.

When, in 1903, his father refused to permit him to follow the career of his choice—engineering—and asked him to elect an alternative profession, Mr. Russell replied apathetically "It doesn't matter," and it was in that listless mood that he allowed himself to be apprenticed to the Hitchin pharmacist, the late Mr. William Payne, on a month's trial. The apprenticeship lasted for four years. For the first year he was paid a shilling a week, rising by annual shilling increments to 4s. Mr. Russell recalls one occasion on which, left in charge of the shop, he was required by a labourer customer to pull a tooth. Protestations of ignorance of how to do it proved of no avail and the young apprentice was eventually obliged to concur. Selecting a pair of forceps he rather liked the look of," he succeeded after a suitable, and mutually painful, period in drawing the offending tooth. Fired by his first success he volunteered his dental services readily to his next patient and promptly broke the crown of her tooth. "I decided," he said, "that dentistry was not my line."

Having completed his apprenticeship Mr. Russell was "ill advised by a well-meaning chemist to take a part-time job in London," so that he might study for qualification. With that aim in view he secured a "living-in" post with Davies & Long, Dorset Street, W.1. He was paid a salary of £20 a year, and was fed and given an attic bedroom. "There was," he recalls wryly, "a chair." Study facilities included an underground stockroom illuminated by pavement lights. His weekday hours were 8 a.m. to 1 p.m. and 5.30 to 10.30 p.m. Between those times he "fitted in" an afternoon pharmacy course at Bloomsbury Square. He had alternate

Sundays free, but when he was "on" he was expected to be on call between 8 a.m. and 10.30 p.m. Thus his "part-time job" consisted of a seventy-hour working week into which he had to fit several hours' study. Feeling his chances of qualification were slight under such conditions he left and enrolled for the "Minor" as a full-time student. In 1909 he passed first time.

After qualifying, Mr. Russell worked for a time at the [former] Plough Court branch of Allen & Hanburys, Ltd., Lombard Street, London, "primarily to gain dispensing experience."

A milestone in his career was the opening—with the help of £30 borrowed from his brother—of his first shop; in Station Road, Letchworth. That was in 1911. It cost £183 (valuation of stock

French, Flemish and English, and employed a trilingual Antwerp girl as an assistant. The Belgian doctors quickly appreciated his co-operation, and reciprocated—much to Mr. Russell's embarrassment—by personally directing their patients to him and endorsing their prescriptions with his name and address. Mr. Russell found himself doing single handed more dispensing than anyone else in Hertfordshire, with the exception of one Watford firm. He recalls the virulent influenza epidemic of 1918, and one week in particular during which he dispensed 1,000 National Health Insurance prescriptions daily (including making about twenty batches of pills) and that in addition to his private dispensing. To add to his difficulties the prescriptions were writ-



Mr. Russell's first shop, at 49 Station Road, Letchworth, which he opened fifty years ago, in 1911.

plus £50, including goodwill and fittings). About the same time he became a founder member of the Hertfordshire Pharmaceutical Committee, of which he later became chairman.

His early years in business were financially precarious. At the advent of war, in 1914, the shop was, perhaps, just paying its way and "it was the war that helped me, if you must say war helps anybody." At that time there was an influx of about 3,000 Belgian refugees into Letchworth. They were employed at a local munitions factory, and the Belgian doctors attached to them commanded far from perfect English, and showed continental prescribing preferences. They were indifferently received by the "established" local pharmacists, who tended to refer the awkward prescriptions to the "new boy." "I was at that time," confessed Mr. Russell, "interested in any business I could get." Recognising his opportunity, and with the initiative to seize it, he had his dosage labels printed in

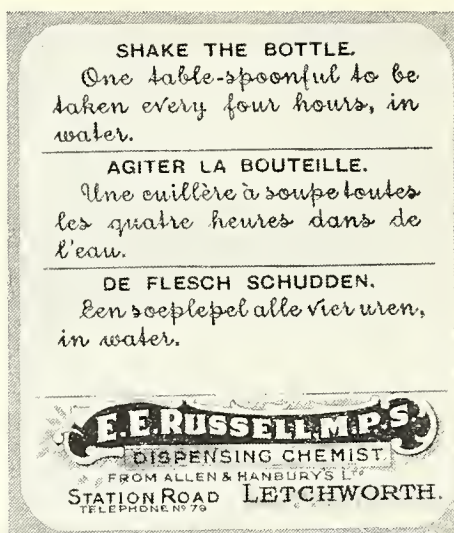
ten in four different languages (one of them Latin) or combinations of all four. At the end of that week, late on Saturday, he received a medical supply order for 80 gall. of concentrated disinfectant, 100 gall. of gargle, and 2,000 cachets. He supplied the order the same night, utilising, with considerable ingenuity, two empty barrels, a 20-gall. lime-juice drum and four carboys which he filled by using a hose. "All rather un-Allen-&Hanburys-like, I'm afraid," was his recent comment.

In 1924 Mr. Russell opened his second shop—in Royston. Branches at Baldock, Hertford, Ashwell, Biggleswade, Knebworth, Hitchin and Shefford followed in steady succession. He made it a point of policy to expand by "ploughing back" profits rather than relying on borrowing. By 1940 he owned ten shops but was prevented from further expansion by staff shortages caused by the war.

In 1946 and '48 he added two more branches—Sandy, Beds, and Stevenage,

Herts, respectively. The year 1948 also saw the conversion of his business into a limited company — E. E. Russell (Chemists), Ltd., his long-service managers being co-opted on to the board. Mr. Russell, who has no children, decided to take that step in order to preserve the name of the business.

Desiring to extend his activities further, and possibly to gratify his interest in engineering, he began to turn his attention—at an age at which most men would be entertaining ideas of retirement—to the fields of manufacture and wholesaling. Looking around for suitable premises he came across a disused and largely dilapidated "malting" in Baldock. By extensive alterations it was converted into a commodious warehouse and manufacturing plant, and in 1951 he announced the formation of a private company—"Rusco, Ltd. To carry on the business of manufacturing and wholesale chemists." The same premises today incor-



One of the multilingual dispensing labels used by Mr. Russell during the 1914-18 war. It is printed in English, French and Flemish.

porate administrative offices, a staff canteen, and a garage housing the company's small fleet of yellow and black warehouse delivery vans.

Active and alert at seventy-four, Mr. Russell is emphatic in his intention not to retire. Though he still devotes much time to the business, he surrenders an increasing responsibility to his fellow directors. Formerly an active member of Letchworth's urban council, Rotary Club, golf club, local amateur dramatic society, Hertfordshire Pharmaceutical Committee and Executive Council, his interests today centre mainly on travel. Recently he has been as far afield as Australia, New Zealand and South America.

What personal qualities in Mr. Russell might illuminate his success? A colleague suggested variously "staff-sense," "good-psychology" and finally, "sheer ability." Mr. Russell, himself said "The people I like best are the ones who say 'You've been very lucky'."

Three Homes in Ten Years

RAPID expansion since the company was founded ten years ago has caused Ridley (Wholesale Chemists), Ltd., Carlisle, Cumberland, to make two removals (three headquarters in all). Founded in 1951, the company acquired the wholesale side of the business of

T. Ridley & Son (Carlisle), Ltd. Its first home was at the rear of the pharmacy at 10 Botchergate. After acquiring all the spare space there and taking some from an adjacent hotel, the business soon found it necessary to look for more suitable premises, and a move

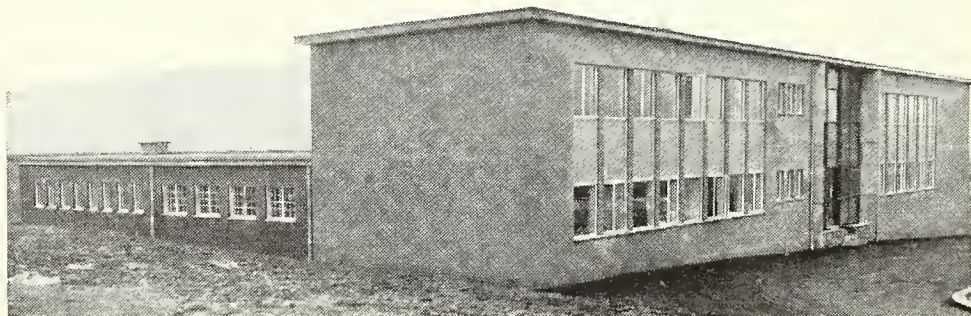
was made in 1958 to premises in Lancaster Street. They were thought at the time to be adequate for many years. However, further rapid expansion proved that belief wrong, and in 1960 four acres of ground were acquired on a fifteen-acre plot scheduled for development on Burgh Road on the outskirts of the city. The site was chosen to give the greater operating freedom away from congested traffic routes, and to provide sufficient space for future development and expansion.

In drawing up plans for the warehouse a particular requirement was that it should have an unrestricted floor area. Ten steel portal frames, each of 100 ft. span, have been used.

The premises, which were occupied a few months ago, have a floor storage space of 20,000 sq. ft. with facilities for developing a further 60,000 sq. ft. if necessary. In arranging the shelving the management had the help of a time and motion study expert.

The board of directors has remained virtually unchanged also, and for the past ten years the chairman has been Mr. George Lightfoot, a prominent Carlisle pharmacist.

Since the inception of the company, its managing director has been Mr. W. L. Nicholson, M.P.S.



CARLISLE WHOLESALER'S NEW PREMISES



Part of the warehouse showing the dispatch counter. Above: View of the new warehouse and offices.



PERFUMERS' "WORLD CONGRESS": Mons. Robert de Bodman (home sales manager, Parfumerie Lubin), with (left to right) the company's two British representatives (Messrs. L. Withey and H. I. Perlow) at a world congress held by Messrs. Lubin in Paris recently. The congress was attended by the complete force of Lubin representatives, whose territories include every country in the world.

Ninth Franco-British Pharmaceutical Congress

SUNNY DAYS OF REUNION IN THE *CONNÉTABLE* COUNTRY

IN ten-tenths sunshine the 204 members of the ninth Franco-British Pharmaceutical Conference arrived in St. Helier, Jersey, on May 12, the ninety-seven British by chartered and other aircraft, the 107 French by plane and chartered motor vessel. First main event of the Congress was a reception by the Etats de Jersey at the Hotel de France on Friday evening, at which a civic welcome was given by DEPUTY C. S. DUPRE (president of the States of Jersey tourism committee).

At an informal dinner in the evening the chairman of the local branch of the Pharmaceutical Society of Great Britain (MR. S. F. AMY) said that, at the 1959 dinner of the "first overseas branch" of the Society he had expressed the hope that the island could be the venue for one of the Franco-British congresses, not realising how soon that would come about. As a Jersey pharmacist he thanked the French pharmaceutical industry for the help it had given to the chemists of the island when they had been cut off from Great Britain during the 1939-45 war.

For the business session of the congress coaches collected the congressists from the hotel on Saturday morning and delivered them at the town hall of St. Helier by 9.30. Against a background of brass plaques cataloguing the *Connétables* of the Parish from 1529 to the present time, the chairman (MR. H. S. GRAINGER), was able to open the meeting, not with a gavel but by tolling the ship's bell of the former cross-channel steamer "St. Helier."

Theme of the session was "The Chemist's Shop—a Social and Personal Necessity." Two papers were presented—one by a British pharmacist (MR. Allen Aldington, a member of the Pharmaceutical Society's Council) and one by a French (M. Jean Lesur, Lille).

The Chemist's Shop in Britain

MR. ALDINGTON said he would contrast the past with the present and thus possibly show a trend for the future.

"In the 'chemist's shop' of the early nineteen-twenties, a period when turnover was small by present-day standards and the pattern of work different for many reasons, dispensing formed but a small part of the daily routine. The National Health Insurance Act had provided medicine dispensed by the pharmacist only for the working member of the household; in most cases the doctor supplied medicine for the rest of the family. In the pharmacy the compounding of family recipes and counter prescribing was important. The pharmacist was the natural outlet for local and national information, and the family adviser on health matters.

A natural development from the era of counter prescribing of medicines suitable for the treatment of minor ailments was the provision of pre-packed medicines carrying descriptive labels with the name and address of the pharmacist. They were usually more elegant than preparations produced in the dispensary, usually more costly, and carried a smaller profit margin. In the

working-class districts there was a ready sale for them, mainly because people could not afford to visit the doctor on every occasion. As manufacturers realised their potential sales, branded advertised products became available, again with a smaller profit but with a steadily increasing sale.

What the Public Expects

From that time national advertising of medicinal products increased. Today advertising is on a fantastic and varied scale that would have been considered impossible those few years ago. Following that trend, the turnover of the pharmacy has increased tremendously, as has the sale of advertised products, which have to a great extent replaced the former services provided. Coupled with the inception of the National Health Service over ten years ago, that has changed the pattern of work in the pharmacy completely. Today most of the country's dispensing is undertaken in the pharmacy, and the value of the pharmacist's work is greatly appreciated both officially and by the members of the public; his status as a professional person (in the eyes of the public and of his medical colleagues) is greater today than it has ever been. But the need for his business acumen, and the maintenance of his trading activities, are still an essential part of his service to the public. Not only is it essential from an economic point of view, but the public expects it.

That became evident to the small band of pharmacists who, after the inception of the National Health Service, decided to provide only a dispensing service, coupled with the sale of a limited range of pharmaceutical products. Most of those have now developed the full pharmaceutical service that was historically expected of them.

In Great Britain the only prerequisite to the opening of a pharmacy of one's own is the passing of the qualifying examination. There has never been any control or limitation of the opening of pharmacies, and through the years they have been established in strategic positions throughout the country, so that the public have come to expect a pharmaceutical service conveniently placed.

Another development in Britain is the company pharmacy, where the financial background was not in the hands of pharmacists. At the present time the companies own between one-fifth and one-quarter of all the pharmacies in the country, and hence play a large part in the provision of the Pharmaceutical service. The service they provide is good and in most cases is standardised to a pattern of excellent organisation, which many could emulate with advantage. But there has been a tendency for some of the larger establishments to sell goods not traditionally pharmaceutical. My personal opinion is that a departmental store selling such a variety of articles should not be called a 'pharmacy' or 'dispensing chemist.' It is not just selfish propaganda to say that medicines should be sold only by the pharmacist.

Primarily the sales side of pharmacy is in the medicinal field, and at the moment there is no restriction on the sale of medicinal products, though it is the avowed policy of the Pharmaceutical Society of Great Britain that it is in the public interest that sales should be controlled. At the present time medicinal products, except those controlled by statute, may be sold in any place of business. Surgical requirements, from a bandage or a simple surgical instrument required for home use to the supply of equipment necessary for the doctor, are all part of modern pharmacy. Amongst other items that are commonly associated with the British pharmacy are photographic equipment and toilet products. With the advertising era and the power salesmanship of the makers of those goods, sales have increased tremendously, and so have distribution points, though there is still ample scope for ever-increasing sales by the pharmacist. Just as he is a specialist in the provision of a dispensing service, so can he be a specialist in the supply of photographic equipment and toilet articles; and every pharmacist should provide that specialist service for his own area. Too often only the minimum is undertaken instead of the complete service that is so desirable.

The supply of instruments for surgeons is very specialised, but in most city centres and large towns there is usually a pharmacy that makes a special feature of the work. The supply of minor requirements for the home or the surgery can be the work of every pharmacist. It is unreasonable to expect the pharmacist to do all such work himself, but he can provide expert service through members of his staff in the supply of photographic material and the sale of toilet products.

Through many years the number of pharmacies in the country increased. Recently, however, the trend has been reversed, mainly because of the closing of many smaller shops. It is essential that the whole position of the placing of pharmacies in Britain should be reviewed, so that an adequate service may be provided for the public. The opportunity for a planned economy would appear to be more favourable today than for many years.

Legal Responsibilities

One other governing factor in Britain is important: the legal condition that a pharmacist must be in attendance in the pharmacy at all times at which it is open to supervise the sales of controlled drugs. As well as providing that complete service, the pharmacist is required to co-operate in any local rota scheme that may be in operation for the dispensing of medicine 'out of hours.' There is also a published list of pharmacists who are available for the dispensing of urgent medicines at any time, day or night. A complete pharmaceutical service is available in the more populous areas and in the country districts many pharmacists are happy to provide a similar complete service.

The pharmacist is the only profes-

sional person who is available at all times to provide a service. That means he has little leisure—certainly less than most people enjoy.

In many districts there are a number of pharmacies in competition one with another. The public have a similar service from each establishment, and it would appear obvious that, if two or three were to join together in suitable premises, an even more comprehensive service could be provided—probably giving greater return, and quite certainly providing more leisure time for each of them. I am convinced that there can be an improved pharmaceutical service with the man-power available, and that everyone would benefit if each unit pharmacy had at least two pharmacists on the staff.

The other main facets of recent developments are the increasing number and great variety of new drugs and preparations, which make it obvious that any planning for the future must take into account the need for post-graduate training courses. It is hoped the branches of our Society will co-operate in the provision of these courses as part of their sessional activities. It is my opinion that pharmacy must develop in the future as a friendly service to the public, with the traditional trading activities as well as the professional side of the calling; that the pharmacist must develop as a friend and adviser on all personal matters, not only of hygiene and health, but of the wider field which is his birthright, and that he must be the personal guide concerning the merits of the products which he supplies, and be the judge of standards! Therefore he should jealously guard his reputation for fair dealing. His personal cachet should not be given lightly, and his pharmacy should reflect the dignity of his calling, but he should compete with all who challenge him for the sale of goods which are his birthright. He should develop also his contact with the medical men in his district, so that he is accepted as a colleague in the National Health Service. He should maintain an adequate and up-to-date service of medical literature on the latest developments in medicine, and should know the presentation and commercial side of all products as they become available.

A Note of Confidence

In this regard I would like to quote from two well-known people in British pharmacy. In the *Pharmaceutical Journal* over 100 years ago, John Bell wrote:—

The most effectual method of advancing professional standing consists in a steady and persevering attention to intellectual improvement, and the establishment of such regulations as are calculated to ensure collective privileges by increasing the amount of individual merit.

In 1941 A. R. Melhuish wrote:—

It will be upon the personality and the professional ability of the individual retail pharmacist that pharmacy will build most surely for the future.

I state categorically that the 'chemist shop' in Britain is not moribund. It will continue to give the public the service for which it is renowned."

(To be continued)

EXPANSION PLANS

BEXFORD, Ltd., who are associated with BX Plastics, Ltd., and Ilford, Ltd., are expanding the production plant at their Mannington, Essex, site. The plant, which is scheduled for completion later this year, is for the production of polymer.

WHIFFEN & Sons, Ltd., have announced plans to manufacture both cyanuric and trichlorocyanuric acids. A plant capable of supplying the total United Kingdom requirements and providing surplus for export is being erected at the company's Loughborough factory, and supplies are expected to be available in December.

THE recently formed joint subsidiary of Albert E. Reed & Co., Ltd. and L. Centrale Finanziaria Generale, S.p.A. Milan, Italy—SICAR, S.p.A.—has acquired the majority of the shares of the Rexim-Bugnone, S.p.A., packaging business in Turin, and is to build a carton board mill in Italy.

WORK is now under way on the extension of the Disley, Ches., factory of the fibre drum division of Bowater Packaging, Ltd., to provide an additional 27,000 sq. ft. of production space and giving by August a total floor area at the factory of approximately 100,000 sq. ft.

RECOGNITION FOR LONG SERVICE

"Veterans" chalk-up a total of 10,204 years

THE annual reunion dinner to long-service personnel of Allen & Hanburys, Ltd., which was held in London on May 12, brought together personnel with a service to the company totalling 10,204 years. Although to qualify for a "veteran" twenty-five years' service is a minimum, twenty-six of the 276 present had served for fifty years or more, 113 for forty to forty-nine years and the remaining 137 for twenty-five to thirty-nine years. Since the previous dinner fifteen veterans who had completed forty years or more service received presentations of their own choice, while ten new members, including Mr. J. Anderson, M.P.S. (packaging manager, Ware), completed their twenty-five years with the company.

MR. F. A. AXE (chief accountant), who responded to the toast of the company, mentioned that 168 of the veterans were still in active employ-

ment, about two-thirds of them were from Bethnal Green and one-third from Ware. During the year the company had endeavoured to trace all the personnel who had retired from the company without pension before 1951 and as a result fifty additional persons were now receiving a pension from the company. An appreciation of the directors' "spontaneous action in providing those pensions" was referred to earlier by MR. C. E. BELL (surgical buyer) when he proposed the toast.

For the first time the wives of veterans with forty years' service and over had been invited to the dinner—to demonstrate to them, as Mr. Axe said, "that such a function really took place." Present also, but not for the first time, was ninety-five-year-old Mr. Ben Grazier, who joined the company's famous pharmacy in Plough Court and gained a reputation for dispensing draughts.

Correspondence

Letters when received must bear the name and address of the sender, not necessarily for publication. The Editor does not hold himself responsible for the views expressed.

A Ballot?

SIR,—Re "prepared-to-strike" letters in the *C. & D.* Why does not the Central N.H.S. Committee send out a ballot form asking contractors if they are prepared to withdraw from the Service and, if the verdict is in favour, present same to the Ministry? At least it will let them know that the rank and file are fed up with being dictated to. I think it is now time we called the tune for a change.

J. S. FREER,
Cleethorpes

Am I Wrong?

SIR,—I notice that our secretary-M.P. is reported to have said that he had spoken against the recent increased prescription charge in the House and had refused to vote in favour of it. This amazes me! Surely, if one's convictions are strong enough, the only course is to vote against the proposal, not make ineffectual speeches on the matter. This leaves me with the impression that, although he disagrees with the proposal, it is not of sufficient importance for outright opposition. I hope I am wrong!

W. R. STANGER,
Sidcup, Kent

Action Approved

SIR,—After attending the area conference of the National Pharmaceutical Union at Malvern. I was heartened by the apparent new lease of life which had been injected into the executive's veins. If Mr. Wright's actions are anything like his address at this conference (*C. & D.*, May 13, p. 482) then we should thank our stars in having such an able, and excellent negotiator helping us. The unanimously supported and well-worded motion passed by the conference should give the Executive just what it needs—the full support of all chemist contractors, and a free hand to decide the best method of attack. Let us therefore wholeheartedly support any plan which headquarters contemplates, and so achieve our aim for a just settlement of our rightful claims!

BRIAN G. SPENCER, M.P.S.,
Sutton Coldfield

Public Money Wasted

SIR,—When the Food Office closed some years ago, I undertook the supply of welfare foods. Among my reasons for doing so were (i) I considered the distribution should be done by clinics or by pharmacists—not by iron-

mongers or grocers; (2) no cash was involved, as all charges were paid by stamps. Now the regulations have completely changed. A substantial charge is being made and it must be paid in cash. The money would have to be kept separately and a weekly cheque issued for the amount. Presumably any errors would have to be put right by the supplier, but the Ministry makes no allowance for the work and costs in-

involved. That puts the service into an entirely different light, particularly as the vitamin products are now in direct competition with our normal stock lines. Furthermore, although the Minister of Health expects the products to be sold for children under five and in reasonable quantities, there is no effective control, as no coupons or vouchers are being issued to beneficiaries. How utterly futile! We all know the Minis-

ter of Health is keen on economies, but here he has missed an opportunity to save money. By turning the distribution of all the items over to the normal retail channels, with a normal percentage of profit all round, he would save all the present administrative costs of their distribution and so achieve the economies he desires.

P. RUSSELL READ,
Hornchurch, Essex

Focus on Merchandising and Display

"PHARMACY FOR MODERNS" EXHIBITION IN LONDON

WITHOUT the lure of samples, or even a programme to guide the way, an exhibition staged mainly by chemists for chemists has now ended its tentative three-day run in London. Far rather than *début* it was, for the prospect of a repeat performance at some future date lies not entirely with the organisers, able as they may be, but rests rather upon the *post-mortem* verdicts of the participants.

Jointly Sponsored

The idea of a Modern Pharmacy exhibition for their members was conceived independently by the National Pharmaceutical Union and Unichem, Ltd., who eventually got to hear of one another's intentions and in March 1960 decided to put on a joint production. The exhibition, on the carpeted floor of the Hotel Russell, in London, May 16-18, was the outcome.

The fourteen exhibitors displaying their wares and services offered the independent chemist a useful range of aids and information, from shelf and island display units to gadgets designed to add touches of sparkle to the appearance of often drab merchandise.

Greeting the visitor entering the exhibition hall was a "life-size" model pharmacy complete with stock, and so realistic that one was left to wonder whether the Pharmaceutical Society might, as a concession, have admitted it, even for three days, to its register of premises. The exhibit was a Nordia shop, designed by W. Mason & Son, Ltd., 128 Baker Street, London, W.1, and characterised by the now familiar Scandinavian design of the Nordia adjustable units. By subtle staggering of shelf levels, the most "chalk-and-cheese" combinations of items were

pleasantly shown almost side by side.

To enforce the shopfitters' claim that "fixed" fixtures are definitely "out," other stands occupied by Remploy, Ltd., 415 Edgware Road, London, N.W.2, and C. Ribbands & Sons, Ltd., 3 Ravey Street, London, E.C.2, also showed ranges of cupboards and shelving designed on adjustable systems and prefabricated to facilitate changeover from old to new within an afternoon. Huntley's (Old Street), Ltd., 18 Leonard Street, London, E.C.2, showed, against a pegboard wall fitting, new screw-in metal display holders for cameras — an arrangement giving maximum view of the article for sale and minimum chance of its being pilfered. The Unipole, claimed the lowest-priced floor-to-ceiling display stand (price 50s., with jack-type fittings 5s. to 19s. extra) was exhibited by Southgate Tubular Products, Ltd., 148 Chase Side, London, N.14, alongside a pram-like barrow with candy-stripe cotton cover. This unique contraption was originally designed to take a floral display but has recently found favour among chemists in Barnet. The wheels turn.

Public Relations in Neon

Signs galore were featured in a dazzling display by Rentasign, Ltd., Grecian Mills, Lever Street, Bolton, Lancs. For £15 15s., a retailer can tell his customers he is "your chemist for all medicines," the message appearing on a white panel beneath a bright N.P.U. sign with carboy in green or red; each purchase carries a twelve-month guarantee.

Shelves and cupboards apart, some "fixed" stock has always been moveable. High on the list of such objects comes the final breadwinner itself—

the till. A selection of tills, and of a mechanical substitutor for the overtaxed mind, were offered by two makers occupying the financial sector—Adwell Adding Machines, Ltd., 20 Pall Mall, London, S.W.1, and Gross Business Machines, Ltd., North Circular Road, London, N.W.10.

Known in unofficial circles as the Pinkertons of the British departmental trade, Lodge Services, Ltd., 245 Tottenham Court Road, London, W.1, claim to be the only company in Europe operating on behalf of retailers in the interests of security. The thirty-year-old company were advertising their seven branches, dotted strategically throughout the country ("we keep an eye on Wales from Bristol"), with a declaration that retailers should use the Lodge service "to detect existing stock losses, prevent further losses, protect management and staff, assist in increasing turnover."

Kodak, Ltd., Kingsway, London, W.C.2, occupied a comfortable corner.

Other stands were filled by The Pharmaceutical Press, 17 Bloomsbury Square, London, W.C.1, which displayed a selection of official publications and books of reference, and the two sponsors of the exhibition itself: Unichem, Ltd., 3 Broadwater Road, London, S.W.17, occupied a double-size stand that was a popular central feature of the exhibition. The stand of the National Pharmaceutical Union, 5 Queen Square, London, W.C.1, was supplemented by a kiosk for Chemists' Mutual Insurance Co., Ltd.

To complete the picture, THE CHEMIST AND DRUGGIST, with its Quarterly Price List and Tablet Identification Guide prominently featured, displayed also the C. & D. range of technical publications for the practising pharmacist.



ASPECTS OF SERVICE: At left, Mr. G. L. Hutt, from Penryn, Cornwall has a look at the publications on the C. & D. stand. At right: The "Nordia look" in adjustable fittings is given to a model pharmacy by W. Mason & Son, Ltd., London and Leeds.

Organisers of the exhibition were John E. Colley, Ltd.

NEW PRODUCTS AND PACKS

Anti-inflammatory Ear Paint.—Under the name Ototrane, Ward, Blenkinsop & Co., Ltd., Fulton House, Empire Way, Wembley, Middlesex, offer an antiseptic, anti-inflammatory, adhesive ear paint in 5-gm. tube.

Trade-marked Capsules.—By inadvertence, the word "tablets" was allowed to creep into a paragraph dealing with Portyn Kapsels (C. & D., May 6, p. 461) in which otherwise they were correctly described as the capsuled preparations they are.

As Tablets Too.—Roche Products, Ltd., 15 Manchester Square, London, W.1 (Welbeck 5566), announce that Librium is now available as tablets in the same strengths and packings as, and at similar prices to, the capsules (5 mgm.: twenty-five, 100, 500; and 10 mgm.: twenty-five, 100 and 500).

Psychosedative Syrup.—Sandoz Products, Ltd., Sandoz House, 23 Great Castle Street, London, W.1, announce the introduction of Melleril syrup, containing 25 mgm. of thioridazine base in each 4 mils (teaspoonful). Introduced in response to the demand for a liquid form of Melleril, the syrup is available in bottles of 100 mils and 1 litre.

Dexamethasone Injection.—Merck Sharp & Dohme, Ltd., Hoddesdon, Herts, announce the availability of a new speciality Decadron injection, an injectable form of Decadron containing 4 mgm./mil of dexamethasone 21-phosphate as the sodium salt in a stable solution ready for immediate use. The injection is understood to be equally suitable for intravenous, intramuscular or intrasynovial injection and for soft-tissue infiltration. The presentation is a 2-mil vial.

Half-volume Vaccines.—Beecham Research Laboratories, Ltd., have extended the range of Wright-Flenning Institute half-volume vaccines. By incorporation of the same immunising dose in half the usual injection volume, young infants are caused less pain from distension of the tissues at the site of inoculation. The formulas of the new half-volume vaccines concerned are to include diphtheria-pertussis vaccine (DP/Vac), each 0.5 mil of which contains 30 Lf of purified diphtheria toxoid, 20,000 million *B. pertussis*, and 0.1 per cent. of Thiomer-sal as preservative; diphtheria-tetanus vaccine (DT/Vac), each 0.5 mil containing 30 Lf of purified diphtheria toxoid, 5 Lf of purified tetanus toxoid and 0.01 per cent. of thiomer-sal; pertussis vaccine (Per/Vac), 20,000 million *B. pertussis* and 0.01 per cent. thiomer-sal; tetanus vaccine (Tet/Vac/FT), 5 Lf of purified tetanus toxoid and 0.5 per cent. phenol. The DP/Vac is issued in pack of three ampoules and 5-mil rubber-capped vial; the DT/Vac as single ampoule and in packs of three ampoules and 5-mil rubber-capped vial; Per/Vac as single ampoule and in packs of three and 5-mil rubber-capped vial; and the Tet/Vac/FT in packs of two 0.5-mil ampoules and 5-mil rubber-capped vial.

Modernised Packs.—During sixty years the pack of ethyl chloride, Duncan, has been unchanged, but now the manufacturers, Duncan, Flockhart &

Co., Ltd., 16 Wheatfield Road, Edinburgh, 11, have made use of new packaging materials to produce a modernised and improved version in which a



specially made screwneck glass bottle takes an injection cap of compressed nylon. The cap has been designed for the company and registration has been applied for. There are two variants: a coarse jet (in white) for general anaesthesia and a fine jet (in black) for local anaesthesia. Increased cost in the components are offset by a saving in assembly, enabling prices to remain unchanged. Messrs. Duncan, Flockhart are also now marketing Duncaine brand injection of lignocaine in a tin of fifty 2-mil cartridges of a 2 per cent. solution, either alone or with adrenaline 1 in 80,000.

Perfume and Cologne.—For the first time the Camellia range of toilet preparations issued by Fields of Bond Street (Nicholas Products, Ltd., Slough, Bucks) includes French Moss and French Flowers fragrances in liquid perfume and Cologne forms. The per-



fumes are contained in slender glass phials each with screw-on cap concealing a neat inner stopper that prevents wastage through evaporation or leakage. The perfume phials are each about 2 in. high, and the Cologne phials about 4 in. high. They are sold in moss green and white pack with a small red camellia for French Moss; pale blue and white container with blue camellia for French Flowers.

A Soap Repackaged.—H. Bronnley & Co., Ltd., Bronnley Works, Brackley, Northants, have repackaged their pre-

make-up soap in a hexagonal box in blue-grey, gold and apricot colours. Each box contains twelve tablets. The cakes themselves retain the well-known lipped-oval curved shape that has become familiar to users.

Novelty Container.—During the months of May and June, M. & R. Norton, Ltd., 9 Park Hill, London S.W.4, are offering their Hanri egg shampoo and sea foam shampoo in plastic "bowling-alley skittle" bottles. After use the bottle, filled with either water or sand, may be used by children for playing the new American game of "ten pins."

Redesigned Bottle.—Goya, Ltd., 161 New Bond Street, London, W.1, have introduced a bottle of special design for their small-size perfume Colognes. The bottle has a shaped transparent plastic screw-on cap from which the bottle widens to a high waist, tapers throughout most of its length, and widens again into a firm base. A carton of distinctive design identifies each variety (Gardenia, Remember, Passport, Black Rose and No. 5).

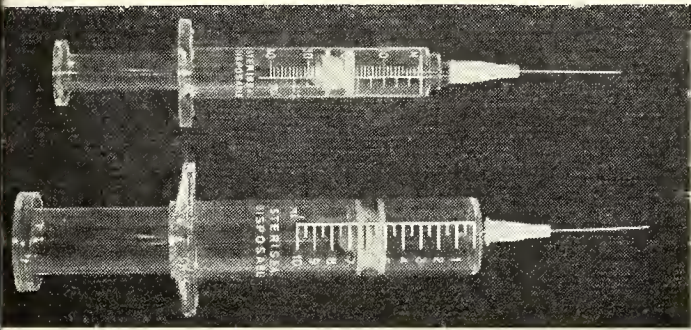
Miniature Packs for Men.—J. & E. Atkinson, Ltd., 24 Old Bond Street, London, W.1, have introduced "Travel-ettes for men," containing miniature packs of items in the Atkinson's men's range. The Travelettes wallets are in designs of red or black with gold lettering. They are available in four combinations: After-shave lotion with lather shave; "crystal" after-shave with brushless shave; Cologne with pre-electric shave; and pre-electric shave with "crystal" after shave.

Vitamins for Dogs.—Kalium Products (Redditch), Ltd., Adelaide Street, Redditch, Worcs, announce the introduction of a new conditioning tablet designed to ensure an adequate supply of vitamins essential to canine health. Kaloids contain eight ingredients, including liver extract, in tablets for easy administration. They are presented in box containing approximately thirty tablets and sent out in twelve and twenty-four-box counter cartons.

Drug-impregnated Bird Seed.—Laboratories for Applied Biology, Ltd., 91 Amhurst Park, London, N.16, describe as "a major advance in veterinary technique" their Ornimed bird seed impregnated with chloramphenicol, or penicillin, or a sulphonamide, or vitamin B₁₂. Ornimed bird seed is described as "a mixture of the finest natural seed treated by an exclusive process that impregnates through the husk into the kernel accurate quantities of the prescribed medicinal compound." Kernels freed from their husks and treated medically are known to be avoided by seed-eating birds, which accept only the whole seed. With Ornimed the husk has still to be removed by the bird which, by accepting it, ingests the treated kernel. The method makes it possible to administer a specified amount of medication, the appropriate quantity of medicated seed being measured from a container provided and fed to the bird daily, no alternative seed being made available until the medicated seed has been consumed.

Odourless Version of a Depilatory.—The Health Research Laboratories, Ltd., 17 Berner Street, London, W.1, have launched a new speciality Veet D, an odourless version of the long-established Veet cream depilatory. The new product is understood to be pleasant and easy to use as a beauty cream, following the contours of the skin "far more closely than a razor" and penetrating to the hair shaft below skin level.

Roussel Laboratories, Ltd., 847 Harrow Road, London, N.W.10, have introduced a zig-zag strip dressing (size 4 x 4 in.) of Sofra-tulle, in addition to the established ten-piece pack of 4 x 4 dressings.

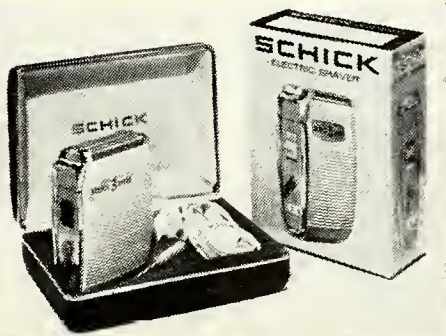


The method of "dimpling" the foils is claimed both to guide the beard into the holes and to reduce the friction area of the cutters on the foil by a further 50 per cent. The shaver is sold with a twelve-month guarantee. It does not cause interference with television.

Disposable Syringe.—A plastic disposable hypodermic syringe for general medical use has been produced and is being marketed under the name Steriseal by the Plastic Box Co., Ltd., Market Rasen, Lincs, on behalf of Shrimpton Steriseal, Ltd., Redditch, Worcs. Both companies co-operated in the design of the syringe, and the moulding tools were designed by the Plastic Box Co., Ltd. Several millions of the disposable

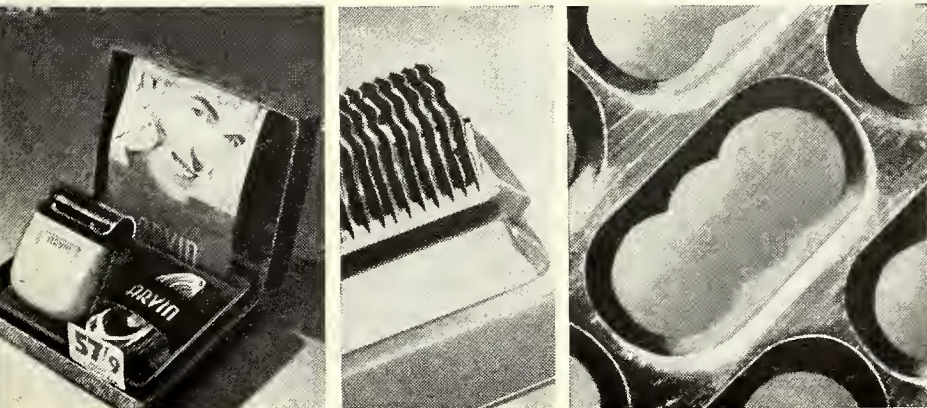
syringe are understood to have been already manufactured and manufacturing precautions ensure that the mouldings are free from strain or contamination. Before issue the syringes are rendered sterile and are supplied for use sealed in bacteria-proof pack.

Redesigned Package.—Schick Incorporated (U.K.), Ltd., 86a Brook Street, London, W.1, announce that the packaging of their Schick three-speed elec-



tric shaver has been remodelled. The cardboard carton containing the presentation box has a Cello-glass finish in the Schick yellow-and-black colours, and the presentation box is hard for maximum efficiency and protection especially during travel, covered with a matt black leathercloth, and with inner lining of crimson and velvet on the base and padded satin inside the lid. Upper and lower lids are brass bound and spring-hinged.

Shaver With "Scissors" Cut.—In their new Arvin DS15 electric shaver, Ever-Ready Razor Products, Ltd., 26 Bedford Row, London, W.C.1, incorporate a unique shaving head with corrugated cutters that slide over foil holes at an angle. The makers claim that the "chopping" process has thus been replaced by a clean shearing action comparable with the cutting action of a pair of scissors. The cutters are self-sharpening and give long service. Corrugation has also made it possible to use a 50 per cent. thinner steel, so that there is less area in contact with the outer foil, thereby reducing friction and allowing the cutters to operate at their peak of efficiency.



The new Arvin electric shaver with, at right, magnified pictures of its new corrugated cutter and even more enlarged "dimpled" foil.

A New Range of First-aid Outfits.—Cuxson, Gerrard & Co., Ltd., Fountain Lane, Oldbury, Birmingham, announce the introduction of a new range of first-aid outfits (five cases in all). Contents of the cases are stated to be in line with modern ideas on first-aid treat-



ment, and to have been carefully selected to cover the widest possible range of common minor injuries. The outfits are in strong metal cases finished in cream, red and white and each is supplied in an individual outer. A colourful illustrated folder is enclosed with each case. To chemists the manufacturers make the special introductory offer of one each of the outfits, a showcard, and folders for counter distribution, at an all-in price of 44s. in return for a fortnight's display.

Disinfectant "Stick."—J. Goddard & Sons, Ltd., Nelson Street, Leicester, are introducing what they claim is a new idea in household disinfectants. The product, Gard-stik, is a "self-operating disinfectant device that kills germs and bad smells in sink and bath drains." Gard-stik is a "stick" of solid disinfectant about the same size as a pencil. It is slipped through the grid of a sink or bath waste pipe, being held in place by a flange. The waste water washing over the Gard-stik is understood slowly to dissolve the disinfectant. The stick lasts about six or eight weeks under average conditions.

Now a Range of Three.—Elsan Manufacturing Co. (proprietors Sanitas Co., Ltd.), Sanitas House, Clapham Road, London, S.W.9, are marketing two new companion products to their



Elsanol sanitary fluid. The first is perfumed "super Elsan" sanitary fluid "embodying the most recent laboratory discoveries in the safe treatment of sewage." The second is Elsan blue, described as "a pleasant-smelling and efficient formaldehyde type of fluid for germ-free and odour-free sanitation." Each is available in 1-gall., quart and single-charge tins.

TRADE NOTES

Smaller Size Discontinued.—Parke, Davis & Co., Staines Road, Hounslow, Middlesex, have discontinued issuing the smaller size of Parke Davis shaving cream.

Appointed Distributors.—George Spencer & Son, Ltd., Kynance Place, Gloucester Road, London, S.W.7, have been appointed sole distributors in the United Kingdom for Schiaparelli perfumes.

Distribution Change.—From May 31, Tampax, Ltd., are relinquishing the distribution rights in Dolcin and Berex, and inquiries should be addressed to the new distributors: Allcock Products, Ltd., Ormskirk, Lancs.

As Powder and Tablets.—Genatosan, Ltd., Loughborough, Leics, have added to their range of Framygen products Framygen sterile powder in 500-mgm. container and 500-mgm. Framygen tablets in containers of twenty and 100.

Operative from June 1.—Keldon, Ltd., Wadsworth Road, Perivale, Middlesex, point out that the reduced prices of Ephazone tablets (see C. & D. Cumulative Price List, May 13) do not take effect until June 1.

Floral Bath Cubes.—Sidney Margolis, Ltd., Margo House, Hemp Row, London, S.E.17, have added to their range of toilet preparations Floral bath cubes packs six to a transparent wrapper and available in rose, lily-of-the-valley, honeysuckle, lavender and bouquet-of-flowers fragrances.

Credits.—Riddell Products, Ltd., 10 Dunbridge Street, London, E.2, are asking chemists, in view of the Pharmaceutical Society's decision to ask the Home Secretary to put 8-methoxypsoralen in Part I of the Poisons List and Schedule 4B of the Poisons Rules, to return stocks of Tan-if-ic to the company for credit.



A WALL "DISPENSER": Holding 1 doz. small P.B.I. dust guns, the brightly coloured self-service "dispenser" shown has a special foil label to suit the contents (either DDT dust, derris dust or flea-beetle dust).

Horses Protected from Flies.—Kalium Products (Redditch), Ltd., Adelaide Street, Redditch, Worcs, offer, in Extra-Tail, what they claim is com-

plete protection for horse or pony from flies and other insects. The product is sprayed from a pressurised container on to the heads and backs of the animals. It may also be used in house, stable or byre. There are two sizes: a 12-oz. size for stable use and a 6-oz. "pony" size.

An Additional Strength.—Bayer Products, division of Winthrop Group, Ltd., Winthrop House, Surbiton-upon-Thames, Surrey, England, are now issuing Hexopal tablets in a 500-mgm. strength. Clinical experience has shown, state the makers, that claims that Hexopal was virtually free from side effects were fully justified. The new-strength tablets are available in container of 100.

Pharmacists' Self-help.—Proprietors of privately owned pharmacies in England, Scotland and Wales are being sent a 12-p. two-colour brochure, "Success Story" inviting them to link up with the Unichem Association. The Association and its associated trading company Unichem, Ltd., claim that they are, in the words of the booklet, "not just another wholesaler." Their wholesaling activities are combined with other services to private chemists, including access to display aids, a series of exclusive proprietaries, etc. Profits are in one way or another devoted to the service of supporters, one of the ways being rebates in proportion to purchases. Shares may only be held by pharmacists, but shareholding is not a condition of membership of the Association. With each brochure is included an inquiry form.

Stolen Goods.—The following items of photographic equipment were recently stolen from F. Murley, Ltd., The Pharmacy, Fawley, Hants.—*Cine cameras:* Bell & Howell Sundial 624B (D59359); Brownie Model II f/1.9 (3028827); Brownie 8 (10579). *Cine projector:* Eumig P8M (856785); 35-mm. *Cameras:* Zeiss Ikonette (S83813); Kodak Retinette 1A (72543); Kodak Colorsnap II (147251); Zeiss Contaflex Alpha (M5922) with ever-ready case and Pantar f/2.8 3470959 lens (Agfa CN14 film inside, partially exposed); Gnome 35 de luxe (6109720); Kodak Colorsnap II (Second-hand) (25013). *Cameras:* Zeiss Signal Nettar code no. "518/16/its" (T012634); Agifold (second-hand) (05577); Kodak 66, Model II (27263); Kodak 66, Model III (24136); Brownie Flash 20; Brownie Reflex 20; Brownie 44B; Ferrania Ibis 44. *Tape recorder:* Elizabethan Princess (P015784). *Exposure meters:* Sixon; Kopil Automat A (plastic price marker enclosed). *Binoculars:* Gordon Ivey 8 x 30 C.M. (without case) (2495); Gordon Ivey 10 x 35 (with case) (3940); Delacroix 8 x 32 C.L. *Electric shavers:* Swift battery model; Philishave floating-head model. *Lighters:* Ronson Milady M.47 and Ascot A212. (Figures shown in parentheses are makers' numbers.)

INFORMATION WANTED

The Editor would appreciate information about the following:

Nikki Novelties, Ltd. (present address)
Formacin ointment, ophthalmic, in gelatin capsules
Enervite food

MANUFACTURERS' ACTIVITIES

A Gold Watch.—For twenty-five years' service with Jean Sorelle, Ltd 21 Turle Road, London, N.4, Mr. F. Mills (works manager) was presented with a gold watch at a silver jubilee luncheon of the company held in London on May 16.

Exhibitions with a Difference.—So that members of the medical, veterinary, pharmaceutical and nursing professions and public health authorities may become further acquainted with their products and services, Smith & Nephew Associated Companies, Ltd., are this year staging, as an experiment, three private exhibitions, the first of which was held in Sutton Coldfield, May 10-12. It featured six companies within the group: Lilia-White (Sales), Ltd. Smith & Nephew, Ltd., Smith & Nephew Pharmaceuticals, Ltd., Smith & Nephew Research, Ltd., Southalls (Birmingham), Ltd., and S. & R. J. Everett & Co., Ltd. Interested persons within a thirty-mile radius of nearby Birmingham were invited, and the response exceeded all expectations. The other venues during 1961 are Glasgow and Cardiff.

LEGAL REPORTS

Forged Prescription

WINIFRED Morgan pleaded guilty at Oldham magistrates' court on May 11 to two charges, each of false pretences and using forged prescriptions, and was remanded for a probation officer's report. The prosecution said that Morgan forged two prescriptions and used them to obtain certain tablets. Police said in evidence that, when questioned, she said she took the prescription forms from a pad in the doctor's room during his temporary absence.

Fraudulent Conversion

AT Berkshire Assizes at Reading, recently, Robert Fowler, an accountant, formerly of Bracknell, was sentenced to one year's imprisonment on six counts of fraudulent conversion and forgery, involving nearly £700. It was stated that Fowler misappropriated money belonging to the South Ascot Pharmacy, Ltd., first while auditing the accounts and later as liquidator, by filling in blank cheques signed by Mrs. Miles, who ran the pharmacy, and paying them into his own account instead of that of the company.

Tablets by False Pretences

FOLLOWING what was described by the prosecution as "a systematic attempt to obtain from local doctors National Health prescriptions for the supply of tablets," Sidney Edward Locking, of no fixed address, was at a special court at Grantham, Lincs, recently committed to prison after he had pleaded guilty to four charges of obtaining 180 tranquilliser tablets by false pretences with intent to defraud, and had asked that nine other offences involving a total of 444 similar tablets should be taken into consideration. He was sentenced to three months' imprisonment on each of the four charges, the sentences to run consecutively.

IN PARLIAMENT

BY A MEMBER OF THE PRESS GALLERY, HOUSE OF COMMONS

WHEN MR. K. ROBINSON asked the Minister of Health (Mr. E. Powell), on May 15, how many communications had had from Executive Councils in Great Britain protesting against the new prescription charges, THE MINISTER replied that he could not say without notice. He was to see a deputation from the Executive Councils' Association later in the week and he would direct his mind to anything it had to say to him. MR. E. J. MILNE then asked if he was aware that an increasing number of people were unable to afford prescribed items from chemists immediately and what information he had received from chemists as to the extent of this delay between presentation of prescriptions and collection of medicines. THE MINISTER: "I have no evidence or information of this kind." MR. MILNE said the delay was causing a great deal of trouble to chemists and promised to send the necessary information on to the Minister. The Minister promised to look into "any concrete cases."

Continental Drugs

MR. J. HALL asked what the saving could be if, based on the total usage of the last year, supplies of chlorothalidate, tetracycline and chloramphenicol cost £5, £37 5s, and £27 per 1,000 tablets respectively were bought from continental instead of British manufacturers.

MR. POWELL: "About £350,000 on the estimated usage in the hospital service."

MR. HALL: "Do you not think it could act as an incentive to British manufacturers to reduce their prices if we purchased more from the Continent?"

MR. POWELL replied that purchase of those drugs from abroad involved several issues, including that of royalty payments.

MR. K. ROBINSON: "When may supplies officers expect clear instructions from your Department about the purchase of drugs from the Continent?"

MR. POWELL: "I am considering what guidance I can give to authorities on this."

First Quarter's Prescriptions

THE MINISTER gave the following statistics on May 15 on prescriptions dispensed during the first quarter of the year, in reply to a question from Mr. K. Robinson:

England and Wales		Items	Average cost
		Million	s. d.
January 1961	..	23.6	7 4.39
February 1961	..	22.2	Not yet available
		(provisional)	
March 1961	..	17.5	Not yet available
		(provisional)	

Cod Liver Oil Research

SIR B. JANNER asked the Minister of Health on May 15 for information about the tests with cod liver oil being officially made for the relief of coronary heart disease. THE MINISTER replied that there were no tests being made under the National Health Service.

SIR B. JANNER: "Why not? . . . cod liver oil is our richest indigenous source

of unsaturated oils. . . The American Heart Council has stated quite categorically that it is effective in this type of disease. In the circumstances, should not tests be undertaken?"

MR. POWELL: "It is not for me or for my Department to indicate what medical investigations should take place."

New Hospitals

THE MINISTER OF HEALTH (Mr. E. Powell) in reply to a question by DR. D. JOHNSON, on May 10, said that ten new hospitals with a total of 4,000 beds would be completed in the next five years. Another five with about 1,600 beds were expected to be in use but not fully completed.

Oral Polio Vaccine

MR. M. EDELMAN (Labour, Coventry, N.) asked the Minister of Health on May 15 what information he had received from the United States and the U.S.S.R. concerning the value of oral vaccine against polio.

MR. POWELL: "I understand that oral vaccine has been used only experimentally in the United States but has been widely used in the U.S.S.R. All information available about experience in these countries was taken into consideration by the Joint Committee on Poliomyelitis vaccine in its recent advice to me."

MR. EDELMAN: "Is it not a fact that the Sabin vaccine used in the U.S. has been administered in hundreds of thousands of cases and has given complete immunity? Will you now make a special study of this vaccine for which it is claimed at any rate that a single oral dose will give complete immunity from the disease?"

MR. POWELL: "The Joint Committee has this in mind, of course, and is studying it. It will no doubt advise me

further but its present advice to me, by which I must be guided, is that the vaccination programme should continue to be based on the killed vaccine and that oral vaccine is not a substitute for the existing methods."

Publishing Offenders' Names

THE MINISTER told Mr. M. Lipton on May 15 that he would not publish the names of doctors and dentists fined by local executive councils.

MR. W. HAMILTON asked whether the Minister would consider publishing the names of those who offended for a second time.

MR. POWELL replied that where continued employment was undesirable under the N.H.S. the name was published and the practitioner taken off the list. "Where it appears, prima facie, that there are matters which ought to be brought to the medical or dental councils, they are brought to the notice of these bodies."

Television Advertising Tax

There was considerable criticism of the tax on television advertising when the committee stage of the Finance Bill was started on May 15. THE CHANCELLOR OF THE EXCHEQUER (Mr. Selwyn Lloyd) promised he would reconsider the tax when the report of the Pilkington Committee on the future of broadcasting was received by the Government. An amendment to the Bill limiting the duration of the new tax to one year was negated.

Isotopes

MR. D. FREETH (Parliamentary Secretary for Science) said in a written reply to MR. R. RIDLEY on May 16, that the Atomic Energy Authority had a five-year plan for extending the processing facilities for radioactive isotopes at the radiochemical centre at Amersham. They intended to continue and extend their vigorous sales and consumer service activities.

COMPANY NEWS

Last year's figures in parentheses

KAY BROTHERS, LTD. — Dr. D. F. Rushman has been elected to the board.

REXALL DRUG CO.—Mr. Maurice Richardson (formerly export director) has been appointed managing director.

HICKSON & WELCH (HOLDINGS), LTD.—An interim dividend of 8 per cent. has been declared for the year ending September 30.

HORLICKS, LTD.—The company are making a £6-million take-over bid for Burt, Boulton & Haywood, Ltd., tar distillers, etc. The offer, partly in cash but mainly in shares, is opposed by the Burt, Boulton Haywood directors.

PLANT PROTECTION, LTD.—Mr. W. Johnstone has been appointed commercial director with effect from June 1. He is succeeded as agricultural sales manager for the whole of the parent company's northern region by Mr. J. A. Collier.

THE Merck Sharp & Dohme international division of Merck & Co., Inc., New Jersey, U.S.A., have acquired the assets of Cipelli Industria Farmaceu-

tica, a pharmaceutical manufacturing company in Pavia, Italy.

HILGER & WATTS, LTD. and WRAY (OPTICAL WORKS), LTD.—Hilger & Watts, Ltd., have acquired Wray (Optical Works), Ltd. Mr. A. W. Smith (a former president of Scientific Instrument Manufacturers' Association) is continuing as managing director of Wray (Optical Works), Ltd.

TIMOTHY WHITES & TAYLORS, LTD.—The annual statement by the chairman (Mr. G. I. Rushton, M.P.S.) accompanying the accounts for 1960 mentions that during the year under review the branches at Liverpool, Middlesbrough and Notting Hill Gate, London, were opened and are trading satisfactorily. In continuance of the policy of closing branches which have become uneconomic a further forty-seven branches have been closed. A large store is in course of construction in the centre of Blackpool, and it is anticipated that it will be completed and opened in 1962. The capital expenditure involved in those alterations and extensions that have been completed

appears to have been "well justified." So far as the current year is concerned the turnover has again been increasing steadily except in dispensing, which has shown a fall in the number of prescriptions as a result of the increase in the prescription levy. Mr. Rushton points out that it is impossible as yet to estimate at all accurately what the ultimate effect of the increased prescription levy will be on the company's profits, but it is clear that the anticipated drop in the number of prescriptions will have some adverse effect. The directors and executives are making every effort to replace any drop in National Health Service turnover by increasing the sales of general merchandise. [For accounts see *C. & D.*, April 22, p. 397.]

CIBA, LTD., Basle, Switzerland.—Consolidated sales in 1960 by all CIBA companies were 10 per cent. up on 1959 at Sw. Frs. 1,130 millions. The Swiss parent company's own turnover rose by 17 per cent. to Sw. Frs. 446 millions. Trading results for the period under review show that sales increased in all the company's main fields of activity, particularly in pharmaceuticals. states the chairman (Dr. R. Käppeli) in his annual report. The European markets once again showed a slight gain. The United Kingdom group of companies in particular showed excellent sales records with products of their own manufacture and with those supplied by the parent company in Basle. Business in the Commonwealth markets also showed an appreciable increase, notably in India, where sales of pharmaceutical preparations in particular showed a distinct upward trend. Net profits for the year rose by Sw. Frs. 1,566,479 (£130,540) to a new level of Sw. Frs. 28,827,689-82 (£2,402,308). It was decided to allocate £691,666 to welfare and research and to distribute £1.5 million as dividends, leaving a balance of £201,260 to be carried forward. Over the next five years the capital investment programme in the United Kingdom will cost an estimated £8.5 millions. The greater part of that sum will be devoted to the modernisation of the factories of the Clayton Aniline Co.

BUSINESS CHANGES

MR. J. SPENSLEY, M.P.S., has opened a branch at 9 High Street, Rainham, Gillingham, Kent.

BROBAT, LTD., is the new trading title adopted by Brobat Manufacturing Co., Ltd., 52 Wandle Bank, London, S.W.19.

SELBY'S BOLTRO PHARMACY, has reopened at 6 Boltro Road, Haywards Heath, Sussex, after extensive alterations and refitting.

Appointments

COUNTY LABORATORIES, LTD., Beecham House, Great West Road, Brentford, Middlesex, have appointed Mr. N. J. Van Abbé, F.P.S., their basic research manager.

CIBA Laboratories, Ltd., Horsham, Sussex, have appointed Mr. R. A. Ramsay, F.P.S., assistant works manager. Mr. Ramsay has been chief pharmacist in the company's pharmaceutical development department during the

past four years and he continues to undertake responsibility for that department.

PERSONALITIES

MR. EDWARD W. LANE, M.P.S.I., who recently retired from Hayes, Conyngham & Robinson, Ltd., chemists, Dublin, had been with the company for forty-three years. Mr. and Mrs. Lane intend to settle down in their native Killarney.

MR. H. W. VALLENDER, who joined the Association of British Chemical Manufacturers in 1943 and since 1950 has been in charge of its commercial department, has been appointed deputy director of the Association. Mr. Vallender graduated with honours in chemistry at Reading University in 1939.

MR. TERENCE F. CAMMACK, who has been appointed a director of J. H. Haywood, Ltd., Warser Gate, Nottingham, has been general manager of the company since 1959. In that capacity he concentrated on promoting the electro medical side of the business. Before joining the company seven years ago Mr. Cammack served with the Merchant Marine and in the civil aviation field.



MR. JOHN PARRY, M.P.S., who is acting general manager of Bookers Stores, Ltd.'s drug department in Georgetown, British Guiana, has been appointed sales director of Bookers Manufacturing Drug Co., Ltd. The company markets galenicals and packed pharmaceuticals in the West Indies, and has recently commenced manufacture of "ethical" preparations.

MR. FREDERICK S. HICKMAN, M.P.S., and Mrs. Hickman, the Spinney, Andover Road, Newbury, Berks, recently celebrated their diamond wedding anniversary. Mr. Hickman is proprietor of Hickman & Son Chemists, Ltd., 21 Market Place, Newbury. Since his retirement from business eighteen years ago, the shop has been run by his son (Mr. A. M. Hickman).

MR. WILLIAM ISAAC JOLLY, M.P.S., Moorcroft, Thorpe Lane, Guiseley, Yorks, has retired after fifty-five years as a chemist in Toller Lane, Bradford. He began his career in pharmacy as apprentice to a chemist in Lumb Lane, Bradford, where he "lived in" and worked 12 hours a day for nothing. He was paid 2s. 6d. a week during his second year and finished his four-year apprenticeship earning 10s. a week. Before qualifying as a chemist after studies at Leeds College of Pharmacy in 1905, Mr. Jolly worked in Harrogate, Bradford and Nottingham, and for a time after qualification he was at Egremont. Mr. Jolly was treasurer of the Bradford Chemists' Association for ten years. He is also a member of the Wharfedale Beekeepers' Association and has served on its committee.

BIRTHS

McILROY.—At Belfast, Northern Ireland, on May 2, to Ruby, wife of Gordon McIlroy, M.P.S.N.I., 109 Dumbarton Drive, Belfast, a son (Patrick Martin Gordon).

DEATHS

ABRAHAM.—Recently, Mr. Edward Varah Abraham, M.P.S., 84 Frodipham, Scunthorpe, Lincs, aged sixty-two. Mr. Abraham, who opened several pharmacies in other parts of Lincolnshire, was for twenty-four years a member of the Scunthorpe borough council and in the post-war years a leader of the Tory minority group, retiring from municipal affairs in 1951 for health reasons. He continued, however, as chairman of the local branch of the Pharmaceutical Society and as a member of the County Executive Council up to his death.

CORNTHWAITE.—On May 2, Mr. Herbert Shuttleworth Cornthwaite, M.P.S., 7 Allandale Road, Levenshulme, Manchester. Mr. Cornthwaite qualified in 1920.

DONALDSON.—On May 8, Mr. Alfred Roland Donaldson, M.P.S., Hambledon Road, Denmead, Portsmouth. Mr. Donaldson, who qualified in 1914, was formerly in business at 12 Queen Street, which he took over from his father in 1933.

GOSMAN.—On May 3, Mr. Albert Henry Gosman, M.P.S., 14 Canonbury Square, London, N.1, aged sixty-one. Mr. Gosman was proprietor of Lloyd Chemists (London), Ltd., 260 Upper Street, London, N.1, from 1938 to 1960.

LEITH.—On May 3, Mr. Alfred Benjamin Leith, M.P.S., Tyn y Gong Cytis Road, Holyhead, Anglesey, aged seventy-eight. Mr. Leith was for many years in business in Ilford and Forest Gate.

MORGAN.—On May 8, Mr. Cadwaladr Palmer Morgan, M.P.S., Market Square, Narberth, Pembrokes, aged sixty-three.

PANCHAUD.—On April 25, Mr. Frederick Panchaud, M.P.S., 51 Althorpe Street, Bedford, aged eighty-seven. For many years Mr. Panchaud was pharmacist at Bedford General Hospital (South Wing).

QUINN.—Recently, Mr. Hugh Quinn, 70 Waterpark Road, Prenton, Birkenhead, aged forty. Mr. Quinn was a medical representative for Crookes Laboratories, Ltd., joining the company after leaving St. Edwards College, Liverpool. From 1951 until eighteen months ago he held overseas posts in Singapore and New Zealand.

ROSSER.—On April 25, Miss Mizpah Elizabeth Rosser, M.P.S., 22 Chatham Street, Machen, Mon. Miss Rosser qualified in 1956.

RUSSELL.—Recently, Mr. James Russell, M.P.S., The Hayes, Cheddar, Somerset, aged eighty-two. Mr. Russell was in business at Highbridge, Somerset, for many years. He retired to Cheddar in 1946.

THURSTON.—On April 28, Mr. Harold Charles Thurston, M.P.S., 13 Farndale Avenue, Osbaldwick, Yorks. Mr. Thurston qualified in 1938.



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"Crisis" in Two Countries' Pharmacy

ONCE again the Franco-British Pharmaceutical Congress (p. 511) has demonstrated how similar are the basic problems of pharmacists on both sides of the Channel, whatever the differences in organisation and practice. As M. Hourticq (not himself a pharmacist but, as law counsellor to the *Ordre National des Pharmaciens*, able to assess the situation at once with detachment and from full information) declared: "Pharmacy in all the world is in a state of crisis, and everybody in a responsible position in the profession must turn his mind to solving its problems." The crisis, of course, results from the revolution by which the preparation of medicaments for doctors' patients has to so great an extent passed out of the hands of the pharmacist and into those of the manufacturer. That does not eliminate the public need for a person trained in the properties and presentation of drugs to be available to take charge at the point at which the medicine, extemporaneous or otherwise, passes into the possession of the patient. The law requires what, even without the law, is so rational a requirement that, as M. Hourticq put it, the pharmacist is "part of the constitution of the country." What the manufacturing revolution does is to compel a reassessment of (a) the pharmacist's status in the community and (b) his remuneration. If those factors do not match up to the responsibilities imposed upon the pharmacist by law and by public expectation, then nobody will be found to shoulder those burdens. In both countries the situation already exists that pharmacists are advising their offspring not to take up pharmacy as a career, and though to some extent the same thing may be happening in other professions, it is a wrong and unhealthy state of affairs. How to reverse the trend so as to bring back to pharmacists the confidence, purpose and satisfaction they ought to have for their own and the community's sakes, is a question to which the answer has yet to be found. It does not lie entirely in pharmacists' own hands, since the climate of opinion, the pressures of financial interests, and the imposition of governmental controls are influencing factors. But the situation is still one in which pharmacists can, by concerted action, do something for themselves. One of the functions of the Franco-British congresses is to enable problems to be clearly seen, and to give to those taking part a feeling that they are not alone in their difficulties. To other organisations, within the national orbit of each country, belongs the function of hammering out policies designed to resolve the problems. In Britain the appropriate organisations are the Pharmaceutical Society and the National Pharmaceutical Union, the first—in profes-

sional matters—through its annual and Branch Representatives' meetings (they have, of course, been taking place this week), which focus attention on courses advocated during local discussions at branch level and eventuate, one hopes, in action by the Council of the Society; and the second, in the more immediate and concrete bargaining about remuneration and terms of service by the Central N.H.S. (Chemist Contractors) Committee, acting on authorities derived from branch and area meetings. At the moment the negotiations on terms are more prominently at the centre of the picture. They are bound to be difficult, because trade and professional matters are so closely intertwined that it is no easy matter for pharmacists to keep the issues separate in their own minds, and infinitely more difficult to get others to understand them. However great the difficulties, "everybody in a responsible position," to repeat and re-emphasise M. Hourticq's words, "must turn his mind to solving the problems."

Onward from Galen

A CURRENT CAUSERIE

NEVER again will I sit quietly by if I hear the French described—or describe themselves—as bad sailors. Praise has been lavished on Columbus for his immense faith in setting out on a voyage of unknown length to a destination he was not sure was there; on the Ancient Britons for their intrepidity in braving Atlantic breakers upon mere coracles; and on the Vikings for their prowess in crossing the North Sea in open boats, landing against opposition, and emerging triumphant. The same magnificent trust, fortitude (*sang froid*, if I may use a now naturalised English equivalent) and eventual triumph may surely be claimed for the seventy-three French who arrived at St. Helier for the Franco-British Pharmaceutical Congress by *vedette*. My phrase-book translates *vedette* as motor boat, but the particular craft of the crossing was an open-fronted boat ominously provided with an emergency hood which, when closed, converted it into a virtual submarine (though it does not, I am told, actually submerge). The mere sight of that mechanism would have scared me, but actually to have embarked on it on a crossing that was to take several hours betokens courage of a magnificent *Ordre*, commanding my unbounded admiration. It is true that the excursionists may have been misled as to the duration of the crossing. I have my own theory as to how the organisers of the expedition, members of a race usually so realist in their approach, came to be charmed into a romantic optimism. Somebody among them had procured beforehand a copy of the *Jersey Evening Post* and had fallen for some of the *patélinage* (French for blarney) of its patois contributor Ph'lip. You may ask my justification for saying so. For answer, may I ask you take a look at some of the samples I picked up from my own copy of the *Post*. The writer, *yun d'nos miyeu juges* [one of our best judges], was writing of his wife *Merrienne*, who had said to herself *j'ithai dans yunne de chais machines tchi font l'trajet, à chein qu'nou dit, dans djais minutes* [I shall go in one of those machines which make the crossing, we are told, in a few minutes]. That accounts for the optimism. The fortitude is demonstrated by the fact that, unlike *Merrienne*, who finally decided against the outing — *J'avais presque yeu l'idée d'y aller par le bâti, mais quand j'vis l'temps, et que j'tais seux que je s'sais malade comme un tchan d'avant v'nîn à la Corbièthe, j'décidis d'rester siez-mé*. [I had almost had the idea of going there by boat, but when I saw the weather, and was sure I would be as sick as a *tchan* (whatever that is) before getting as far as la Corbièthe, I decided to stay at home.] —the valiant French went ahead.

As for the triumph, their presence at the Congress is proof of that.

"OPEN SHOP"

AN UNSCRIPTED COMMENTARY ON THE
SPECIAL PROBLEMS OF THE PHARMACIST
IN RETAIL PRACTICE

E. C. TENNER



WHEN the dockers or the doctors are as dissatisfied with the remuneration for their employment as now are the chemist-contractors to the National Health Service, the matter becomes news and a national topic of discussion. Newspaper and magazine articles and letters and stories appear, as do television and "steam" radio interviews, some *pro* and some *contra*. The nation is soon well informed about the issues at stake, and the background is well prepared for negotiations and if necessary for a fight for the improvement of the remuneration. That state of affairs does not just happen by itself. It is the direct result of inspired and expert public relations. I say "inspired" and "expert" because the work of getting the required publicity is itself a specialist's work, while the compilation of the facts and material to which the publicity must be given is work for a different sort of specialist altogether. Both sorts of specialist must work closely together to get the desired result, namely a national sympathy for the case for improvement.

Ice-cold Comment on Hot Topic

The four ice-cold paragraphs in the April issue of the National Pharmaceutical Union Pink Supplement under the heading "N.H.S. Remuneration" are all that is offered to the membership or the public on the hottest issue that has confronted pharmacy since 1948. Those hopeless paragraphs carry in them the seeds of failure. I quote the bones of this skeleton:—

- A. "... at no time since the inception of the N.H.S. scheme in 1948 have the negotiations proved so difficult or the problems of getting agreement between the Ministry and the contractors' representatives proved so intractable. ...
- B. "... the contractors' representatives firmly believe that until factual evidence is available of the precise effects of the increased levy, it will not be possible to convince the Ministry that improved N.H.S. remuneration is essential. ...
- C. "... Whilst recognising the undoubted anxiety that exists among many contractors to know what the future holds so far as improved N.H.S. remuneration is concerned and to be kept fully informed on what is being done to secure equitable treatment, the Central N.H.S. Committee asks for the forbearance of all contractors until such time as a fuller statement can be made without prejudicing the course of the negotiations."

Whatever the Central N.H.S. Committee claims to recognise, it overlooks the truth that this is not the first time in history that employers have not been convinced without a struggle of the need to improve workers' remuneration. They have also overlooked the truth that, as employers, a Ministry is in a much weaker position than a private enterprise employer, in that the Ministry must bow to the climate of public opinion. If they had not overlooked those truths they would not now be asking for the forbearance of contractors and the concealment of information about the negotiations.

There is no doubt that our negotiators are earnest and dedicated men who know the arguments for our case better than any others, but they seem to lack the leadership that sees the so-called "intractable" position as one that can be resolved by what will be, for pharmacy, unorthodox methods. The true image of the "family chemist" and his problems has got to be painted and shown to the public. Once the public is persuaded that the chemist is being unfairly treated, the Ministry will have to concede to us terms of remuneration that are fair and that will satisfy us.

Britain is a democratic country and even the Treasury must eventually reflect public opinion.

Work for a Specialist

We cannot afford to try to exist any longer, publicly misunderstood as collectors of "hidden profits." The Contractors' Committee, the N.P.U. Executive and the Pharmaceutical Society's Council should embark at once on a planned campaign to introduce the pharmacist to the public. Top copywriters, advertising experts and public-relations contacts should be employed. Much money must be spent and we cannot afford *not* to spend it. Neither can we afford to leave the carrying out of this vital policy to intelligent amateurs—however intelligent or however dedicated to the cause. If our leaders do not realise that we are fighting for the professional existence of every sort of pharmaceutical practice, we ordinary members do. Those who are opposing our demands have an Achilles' heel—public opinion—and it is only through that heel that we can achieve a successful breakthrough in the present *impasse*. The rank and file of the profession is already convinced of this, and of the misconceptions of the "Old Guard of the Squares," who retreat from one crisis to another in their out-dated stripey-trousered Victorian secret diplomacy. Much might be done in present circumstances by the rank and file of us, each in his own locality, to bring the true image of the pharmacist into the public mind, but it can only be done when each of us is given true facts and figures to use. In the long run it can only be to our own advantage to illuminate the truth. Give pharmacists the true facts to argue upon and they will be unchallengeable, for pharmacists are well educated members of the public and responsible citizens. I regret that, at pharmaceutical delegates meetings, the trend is too often that the platform does not give vital information to the floor until much time has been wasted arguing by the floor upon false or insufficient premises. Then comes the platform—oozing superiority and reluctantly giving the vital information only at the last moment. The platform hierarchy thus, in great error, comes to underestimate the value of the rank and file in such a campaign as is now upon us. Now that they have admitted that they cannot make any progress, the lesson must be driven home to the platform hierarchy that the only progress possible is by means they have not yet seen fit to use: modern public relations and the informed efforts of every rank and file member of the Society.

Depressing Reading

Considering the dangerous economic state in which pharmacy finds itself in 1961 it is most depressing to read the policy statements of most of the candidates for the Pharmaceutical Council election. Too many of those addresses hark safely back to bygone days and good deeds done in days of yore. Some are simply self-laudatory. One sees little, if any, new vision or leadership among them. New platitudes may be coined and promises hinted at but, because of censorship, the means do not exist to check up on Council members' personal voting records and struggles and opinions expressed in Committees. No doubt a "safe" Council will be elected, the Executive will continue to steer the ship. The reply-paid envelopes may attract a higher poll. What is needed is an electorate better acquainted with what its elected representatives are doing.

STUDYING WEEDKILLER "FORM"

Recent advances in the herbicidal field

THE concept of selective toxicity was, at the beginning of the present century, no more than an abstract and controversial idea. The fact that most of the pestilences which abounded—cholera, typhus, malaria, tuberculosis, syphilis, etc.—were caused by micro-organisms had but recently been accepted by the scientific world, thanks largely to the work of Pasteur. But few other than Erlich put their faith in the possibility of discovering chemicals that could kill the parasite without harm to the host. Where it had been even remotely rational, treatment of diseases had hitherto been symptomatic, and an entirely new approach to the problem was not easy to accept. Selective toxicity is now the basis of much of medicine, chemotherapy being the branch concerned with the removal of parasites from man and his domestic animals, and pharmacology the branch concerned with the modes of action of drugs on cells or organs within the body.

Antecedents

In agriculture, selective toxicity is the means whereby two species may be separated from each other, the uneconomic species being killed or suppressed while the one regarded as the economic species remains unharmed. It might be expected that the greater the difference between the two species, the easier it would be to penetrate the armour of the one without harming the other, and such is generally the case. Fungi, being lowly plants, are less readily controlled in plant crops than are insects; and the more effective insecticides are frequently toxic to man and other animals. The outstanding exception to the rule is the group of chemicals, based on the relatively simple compound phenoxyacetic acid, which are able in minute quantities to destroy many broad-leaved plants without adversely affecting graminaceous plants.

The accidental discovery by Imperial Chemical Industries, Ltd., of the herbicidal effect of compounds that were being investigated for their root stimulating properties has become a classic episode analogous to that of the discovery of penicillin, but the parallel does not end there. Both MCPA and penicillin were first produced during the 1939-45 war, and both revolutionised the sphere in which they were applied; each became the stimulus for vast research programmes and formed the basis of important new industries. And, despite the consequent multiplicity of new but related compounds, both MCPA and penicillin have maintained important places during the fifteen years and more in which they have been used with such dramatic effects and with such devastating results on uneconomic species, whether bacteria or weeds.

The original rooting compound that was found in 1941 to possess selective herbicidal properties was α -naphthyl acetic acid (ANAA), though that substance would have proved too costly for its purpose. That fact demonstrates an important difference between the two discoveries, for no economic price can be ascribed to the value of a life-saving drug for human use, whereas pesticides for agriculture must cost less than the value of the crop or stock saved. A further two years' work went into the development of MCPA and two or three years more were spent in evaluating its properties and formulating products suitable for commercial use.

One-way Bet

During the following decade the problem of weed control in corn was resolved by the simple formula: if the weeds are susceptible to MCPA, spray; otherwise don't. For only occasionally would resistant weeds present such a menace to the crop that the high-volume application of DNOC would be contemplated by the grower. Many chemicals related to MCPA must have been prepared in the

search for new weed-killers, but only 2,4-D emerged as a rival, and in this country its usage has been limited. Some of the homologues now in use must have been examined and rejected, largely because the yardstick by which they were assessed was faulty. The original discovery of the herbicidal activity of ANAA followed the spraying of soil containing the seeds of oats and charlock; the oats came up and the charlock did not. MCPA too proved, as is now well known, effective against charlock at dosages even below 1 lb. per acre. So charlock became the test organism for evaluating the thousands of chemical compounds that were being screened for herbicidal activity; those which gave poor results, or those which were more expensive to manufacture, were rejected.

Increasing Selectivity

The first significant advance was the result of another accidental discovery. To investigate the mode of action of phenoxyacetic acid compounds, Professor R. L. Wain in 1954 prepared its butyric homologue and, as he expected, found that it was broken down within the plant to MCPA by a β -oxidation process. But the enzyme system which caused the reaction proved weak in certain plants, notably clover and peas, and they were not affected by treatment with MCPB, itself inactive as a herbicide. Certain cruciferous weeds such as charlock and wild radish were also somewhat resistant to MCPB, but since those weeds are the very ones that are exceptionally susceptible to MCPA, a mixture of MCPB with a small proportion of MCPA has come to be accepted as the weed-killer of choice for cereals undersown with clover and for young leys. For peas, MCPB is used alone, though it is not recommended for certain varieties, particularly those—such as Gregory's Surprise and Kelvedon Wonder—which have short seasons of growth.

Broadening the Spectrum

As the combine harvester steadily replaced the binder, cleavers, which are resistant to MCPA, became an increasing problem and, with the lesson of MCPB before them, the research teams added that weed to the ones they used in the continual screening of new chemicals. Mecoprop (CMPP) is the propionic homologue of MCPA and lies, chemically, between MCPA and MCPB; it should have been an obvious choice for close examination at an early date, but was first introduced in 1956. As it is a mixture of *d* and *l* optically active isomers, of which only one possesses herbicidal activity, its cost is considerably more than that of MCPA. But it is effective against cleavers and chickweed, as well as those weeds which are susceptible to MCPA. To control more-or-less the same range of weeds, there was introduced, simultaneously with CMPP, a mixture of MCPA with 2,3,6-trichlorobenzoic acid (TBA). The mixture is less effective than CMPP against chickweed but gives useful control of mayweeds and redshank, which are relatively resistant to both CMPP and MCPA. The MCPA/TBA mixture bears the distinction of showing activity when used at relatively low temperatures (down to 35° F.), and that gives it an advantage for the treatment of winter-sown corn crops.

MCPA, CMPP and MCPB are a homologous series having in common a 2-methyl 4-chloro phenoxy group and differing only in the length of the aliphatic chain; 2,4-D is MCPA with the methyl group replaced by a second chlorine atom, which increases herbicidal activity, even though at the cost of diminished selectivity. What happens if CMPP and MCPB are altered in the same way? The dichloro derivative of MCPB was introduced in 1960 as 2,4-DB (Embutox), recommended principally against a wide range of weeds (including redshank) in lucerne and red

THE CASE FOR THE "EXOTIC" WEEDKILLERS IN CORN CROPS

Weeds relatively resistant to MCPA (and MCPB)	2,4-D ESTER	2,4-DB (+ MCPA)	CMPP	MCPA/TBA	DINOSER	DNOC
	9/-	Average 26/3	24/6	27/6	48/6	39/6
Anthemis cotula (stinking mayweed)	+	-	-	+	+	+
Bellis perennis (daisy)	++	-	++	++	-	-
Chrysanthemum segetum (corn marigold)*	-	-	-	-	+	++
Echium vulgare (vipers bugloss)	-	-	-	-	-	-
Galeopsis tetrahit (hemp nettle)	-	-	-	++	-	-
Gallium aparine (cleavers)	-	-	++	++	+	++
Lithospermum arvense (corn groomwell)	-	-	-	-	++	++
Matricaria maritima (scentless mayweed)	-	-	-	+	-	++
Polygonum aviculare (knotgrass)	+	-	-	+	+	+
" convolvulus (black bindweed)	+	+	-	-	-	+
" persicaria (red-shank)	+	+	-	+	-	+
Spergula arvensis (spurry)	-	-	-	+	+	+
Stellaria media (chickweed)	-	-	++	+	+	+
Veronica spp. (speedwells)	-	-	+	-	+	++

* A mixture of MCPA 5 oz. with Dinoseb 12 oz. gives good control of seedlings.

++ = good control.

Key to chemical formulae:

I	DNOC	3,5-dinitro-o-cresol
II	dinoseb	2,4-dinitro-6-sec-butyl-phenol
III	TBA	2,3,6-trichlorobenzoic acid
IV	MCPA	4-chloro-2-methyl-phenoxyacetic acid
V	CMPP	mecoprop, α -(4-chloro-2-methyl-phenoxy) propionic acid
VI	MCPB	γ -(4-chloro-2-methyl-phenoxy) butyric acid
VII	IPC	propham, isopropyl-N-phenyl-carbamate
VIII	endothal	sodium, disodium 3,6-endo-hexahydrophthalate
IX	diquat,	1,1'-ethylene-2,2'-dipyridylum dibromide.

clover. Owing to the high cost of the compound, a mixture of 2,4-DB with 2,4-D has now been introduced (Embutox Plus) for use both in corn and undersown crops for the control of redshank and other polygonous weeds. It is thought likely that the dichloro analogue of CMPP is, too, going to be introduced this season and recommended for the control of redshank and knotgrass—but for straight corn crops only (for the propionates are toxic to clovers). Another *début* this year is of Silvex, the 2,4,5 trichloro analogue of CMPP, mixed with CMPP, as Mecopon; the information so far available does not indicate what advantage is given by the addition of Silvex, but since the latter was developed in the United States for the control of woody plants, the mixture might be expected to deliver an added punch.

Advances on Other Fronts

The phenoxy aliphatic herbicides, the so-called hormone weed-killers, for corn and grass are not the only rich developments in the herbicidal branch of selective toxicity. Maize, which is being grown in this country on an increasing scale for silage, is found to be one of the few plants resistant to simazin, hitherto used as a total weed-killer. As simazin is almost insoluble (only 3½ p.p.m. in water) and very stable, it is a long-acting herbicide effective against annual weeds and is thus used as a residual selective weed-killer for maize crops. Some root crops show comparative resistance to endotal which, in combination with propham, is being used this season in large-scale trials as a pre-emergent residual weed-killer (Murbetex), for sugar beet. As the mixture is expensive, overall spraying is not an economic procedure, hence a special machine has been developed to apply a 7-in. band of spray over each row at the time of drilling.

An unusual chemical, diquat (Reglone) was publicised with a bang during 1960 but disappeared with a whimper as supplies failed to materialise, and it is encouraging for many lesser mortals to find that even the best laid plans of

I.C.I. may go astray. Diquat, a quaternary dipyrindyl compound, is known to interfere with the respiration and photosynthesis of plants, though that action seems insufficient to explain its rapid kill. Although its action is, to certain extent, selective—for example oats can tolerate amounts that cause destruction of potato haulm—its selectivity is not of a magnitude to justify its use as a herbicide in growing crops. Being rapidly and completely absorbed by soil it has considerable possibilities as a pre-emergent weed-killer, though initially its recommended uses are as a potato-haulm destroyer and as a defoliant prior to harvesting clover for seed.

Three more-or-less opposing trends may be discerned as new season's weed-killing activities are about to commence. There is the move towards broader-spectrum weed-killers to control an ever wider range of weeds, as exemplified by MCPA/TBA mixtures and CMPP. There is the development of herbicides for the control of specific weeds, such as delapon for perennial grasses, and 2,4-DB for redshank. The notable gap in the farmer's herbicide weapons, so far as root crops are concerned, is narrowing with recent advances that have been made. Each month literally thousands of random chemicals are investigated by a handful of manufacturing firms, and each is put through the weed-killer sieves in the hope of a revolutionary discovery. It may seem a haphazard way of going about research, but nothing like enough is known about the biochemistry of plants to enable a logically planned programme to be instituted. Until it is known exactly why some plants are more resistant than others to the various herbicidal chemicals, chance alone will determine where we go from here.

100 YEARS AGO

A CONVERSAZIONE AT NO. 17

From the C. & D., May 15, 1861

LAST evening (Tuesday) a very numerous-attended meeting was held at the house of the *Pharmaceutical Society*, Bloomsbury-square. We must congratulate the Committee of Management upon their excellent arrangements, and the extensive and varied character of the scientific instruments collected for inspection; every department of chemistry was adequately represented. Amongst various other articles of interest, we particularly noticed the Binocular Microscope, invented by Mr. Wenham, and exhibited by Messrs. Smith and Beck. There was a splendid collection of Photographs burnt into glass according to the plan proposed by Monsieur Joubert, and exhibited by Messrs. Powell, of Whitefriars' Glass-works. Not the least interesting of the philosophical instruments was Professor Way's new Electrical Light, in which the light is emitted from a small stream of mercury conveying the current from the battery. Professor Wheatstone's private telegraph was exhibited in action, and excited much attention. Messrs. Johnson & Sons contributed a very fine assortment of show crystals; also collections of chemical products, showing their various stages of manufacture. An aluminium helmet, of the most exquisite design, showed strikingly the capabilities of that metal. The remarkable lightness of the metal renders it peculiarly suitable for military accoutrements. Messrs. Morgan Brothers exhibited several novelties, some of which are noticed in another portion of our journal; and the Plumbago Crucible Company showed several superior furnaces, and samples of the various crucibles manufactured by them. Coffey's patents, for the rapid evaporation of fluids at a low temperature, were exhibited in action. Bunsen and Kirchhoff's experiments on Spectrum Analysis, which have been so fully described in these pages, were displayed. A series of Photographs contributed by Professor Warren De la Rue showed the remarkable phenomena connected with the recent total eclipse of the sun as witnessed in Spain.

SLIM CHANCE: "People will not become permanently slimmer by hormone therapy, by restricting their water or salt intake or by being pulled, pushed and patted with extraordinary, exotic and expensive devices"—Professor J. Yudkin (professor of nutrition and dietetics, University of London), speaking at the recent congress of the Royal Society of Health.

WHAT HAPPENED WHEN I GAVE UP N.H.S.

Better relations with customers, with my wife, with staff. More freedom and more leisure. More time for profitable sales.

By "STILL VERY RESIGNED"

IN response to one who has recognised himself as a subsidiser of the National Health Service, and of others who are subsidisers but not yet aware of it I would like to give a few facts about my business since I withdrew from the list of chemist contractors.

I have a chemist's shop of reasonable size in a narrow back street in a country town of about 20,000 inhabitants. I am at the "wrong end" of the town, that is the furthest from the doctors, so that patients have to pass every other chemists' shop in the town before they come to mine. As N.H.S. patients, naturally they did not do it, and my N.H.S. dispensing was 500 items or less per month. I had been on "full pricing" for nearly four or five years before I decided to "pack it in." Every fifth week, when I was on rota duty, there were demands for new preparations that I had not previously been asked for, and patients who had walked a long way to my pharmacy from the doctor's surgery were naturally disgruntled. Consequently my relationship with my customers was rapidly deteriorating. At the same time my stock was growing. It had reached about £1,500 in value and I was not doing much more than that in N.H.S. dispensing a year. On that basis it was uneconomic.

Photographic Business

On the other hand my photographic business was expanding (it has grown to about £10,000 a year). I have usually £800 to £1,000 worth of goods out on hire purchase that I stand myself, and I find it helps to bring the customers into the shop. That more or less guarantees £20-£30 every Saturday afternoon, which is quite a help. I usually achieve a turnover somewhere in the region of £10,000 a year in proprietaries and £3,000 in optics. I have only one high-class toilet agency; most of the others are concentrated in a large company shop in the high street. I had another agency, but the manufacturer decided to put it with the others because I was not, apparently, doing what they thought I should do. However, as each maker manages to bring out new lipsticks and things every other week, it helps not to have to stock too many.

The most amazing element in the whole situation is that, once I gave up National Health Service dispensing, I immediately gained the enormous respect of the customers. Even now I get ten or twenty prescriptions brought in each week, and some people are prepared to wait and pay rather than go elsewhere. Previously they would not wait five minutes. I have the respect of my staff, and the relationship is much better for everybody. But the most astonishing thing was that, whilst I was dispensing N.H.S. prescriptions, I found my relationship with doctors deteriorating. When I ceased being a contractor the position improved remarkably. Patients now almost apologise when they bring in a script. The attitude of the staff has also changed for the better. The duty week was a bad week for everybody, and it resulted in a certain amount of ill feeling. So soon as my name came off rota everybody became happy. Much the same thing happened in my home life. My wife had never been able to understand why, if I shut the shop at seven, I didn't get home till eight. The trouble was that patients took a long time to find the shop and as I let one latecomer out I let another in.

Since I finished with the National Health Service I have enlarged my shop to nearly twice the size. I have

taken the dispensary—what there is left of it—to the back and have built two new large photographic rooms for demonstrations. At present I am having my whole shop redesigned and altered to make room for more customers. To demonstrate a projector or sell a projector and camera I am prepared to give up one or two evenings a week and about two or three times a year I hold "classes" at which people come in and process their own colour films.

The paradox of the situation is that for years no doctor ever telephoned me to ask, say, what particular hydrocortisone ointment to use, but every day now somebody is 'phoning me to ask for my technical knowledge on photography. "I have a certain film in my camera, I want to take such a subject. What exposure do I give?", or "I have underexposed this film. What developer shall I buy to make up for it?" I have three or four customers who are colour photographic experts. In their knowledge of photographic chemistry I have to keep pace with them, and I help them with their solutions. I thus do not feel that my pharmaceutical knowledge has been wasted.

Dispensing was a Disappointment

For two years before I gave up National Health Service dispensing I found that I could take more money in photography on a Saturday afternoon than I could in a whole month of dispensing. And when that state of affairs exists it's time to do something about it, so I did. Of course, I had always been interested in photography and I have studied the subject. Yet I do not want to give the impression that I neglected my dispensing for the photographic business. I tried hard to develop it. I built a large dispensary and engaged extra staff when the scheme started. But it did not seem to make any difference. Most of the dispensing seemed to be concentrated in the two large shops in the centre of the town; a pharmacy at the other end of the town did not join the service; another chemist gave it up after two years, and a third two or three years ago and finally I gave it up. This town is thus one in which National Health dispensing does not pay anybody.

This is not one long grumble about the National Health Service, but why should one give up all that time every fifth Sunday, every fifth half-day and every fifth week of one's life for something that actually does not pay—not only doesn't pay but actually loses one money. I merely shifted my talents to a place where they are appreciated and paid for. I was lucky in that I got two other chemists to take over most of my saleable dispensing products. The rest I have disposed of in the best way I could, am now using the space to better advantage showing products I can sell. If a camera goes out of date I can still get something for it. It does not rot on the shelf. Even out-of-date films may be used, but in dispensing, Schedule IV preparations not used up are absolutely left on one's hands. Good money is being lost and thrown away all the time.

I hope these few facts may be of help to some of my colleagues in pharmacy. One chemist who has read my remarks said, "What does a poor man do if he hasn't any interest in photography or hasn't any call for toilets?" I am afraid he must make his own decisions. Fortunately I have my photographic business, I kept by own "prescribing" business, and I have my toilet sales. The decision what other chemists must do is up to them. I have merely told how I tackled my problem—and given the results.

Pharmaceutical Society of Ireland

MONTHLY MEETING OF COUNCIL

THE Council of the Pharmaceutical Society of Ireland is to write to the Newspaper Managers' Association pointing out that the public demand for tranquillisers and "pep" pills is being created by advertisements appearing in the newspapers in respect of those products, and emphasising that chemists do not recommend the indiscriminate sale of those tablets. That was decided at the monthly meeting of the Council in Dublin on May 9, when MR. D. J. KENNELLY said that since the matter had been discussed by the Council two months earlier an article had appeared in an Irish Sunday newspaper pointing out the dangers in the sale of such tablets and insinuating that the place from which the tablets were too freely available was the chemist's shop. Notwithstanding that attack, a 6-in. double-column advertisement appeared in the same edition recommending the sale of a well known proprietary tranquilliser. "This appears to be an inconsistent policy on the part of the paper," said Mr. Kennelly, who added that that should be pointed out to the Newspaper Managers' Association. While chemists never advertised or recommended those tablets to the public, the papers decried the sale of them in one breath and made money out of the sale of them at the same time. Mr. Kennelly added that since the last occasion on which the matter had been discussed by the Council four or five chemists in Dun Laoghaire had refused to sell such products without a doctor's prescription, yet the customers were able to go to another pharmacy and secure them. It was hard on pharmacists who were trying to run their business in an ethical way to be told, perhaps by a long-established customer, whom they had refused, that the tablets could be got in other pharmacies without any trouble. The registrar was instructed to write to the Association as suggested.

MR. G. C. O'NEILL (vice-president), occupied the chair in the absence of the president (Mr. F. Loughman, T.D.). MR. T. R. MILLER inquired if the financial position of the Society had been brought sufficiently strongly to the attention of the Commission on Higher Education when they visited the College on April 8. He was informed that the secretary of the Commission had invited the registrar to submit "break-down" figures showing the cost of pharmacy education to the Society. The memorandum had been forwarded.

A letter was received from the Department of Agriculture regarding the labelling of animal remedies sold in broken bulk and pointing out that, even if the Minister thought it desirable to do so, he had no power under the Act to make a regulation along the lines suggested by the Council. Any change would require an amendment of the Act and the Minister did not feel justified in introducing such an amendment. Consideration of the matter was referred to the next meeting of the Council.

The Dublin Health Authority has approved in principle of the Council's request that overseas students should be permitted to undergo practical training in the Authority's pharmacy in St. Kevin's hospital.

Television Advertisements Code

A letter was also received from the Irish Television Authority enclosing a draft code of the standards for television advertising and drawing particular attention to section 3, which incorporates legislation concerning advertisements of medicines and treatments. Strict control, the letter said, would be exercised over the visual presentations of doctors, dentists, pharmaceutical chemists, nurses, midwives, etc., in advertisements of medicines, treatments and products claimed to promote health or to be beneficial to illness. Visual presentations which give the impression of professional advice or recommendation would not be allowed. The letter added that they would be glad to consider any views put forward by the Council on the matter. MR. R. J. SEMPLE

suggested that they should advise the Authority not to accept advertisements which stated that pharmaceutical products could be obtained at grocery shops. It was decided to write to the Authority pointing out that the Council would submit their views to the Authority as the occasion arose.

MR. KENNELLY reported that the dean of the College (MR. R. F. Timoney) was worried about the present staff situation in the College. He had pointed out that apparently persons with suitable qualifications were not available in Eire and that he would have to make inquiries in Great Britain. It had been told, however, that the position was equally difficult in England. Dr. Timoney had said he hoped to discuss the problem of securing suitable staff with Professor Bullock during a visit to Manchester University, and with the dean of the University of London School of Pharmacy.

THE REGISTRAR reported that a meeting of the Committee of the College of Pharmacy Fund had been held on April 28. To date the Fund totalled £3,478. The Committee had formed a subcommittee which had drawn up a list of firms to which it was agreed should be recircularised. The Committee also agreed to take steps to secure the services of some person to undertake secretarial duty. The registrar added that he had attended a meeting of the Wholesale Drug Federation of Ireland and had presented members with a list of subscribers to the Fund. Mr. Kennelly said he was quite pleased with the progress made.

A cheque for £26 5s. was received from W. Gaw Ltd., 62 Brighton Square, Rathgar, on behalf of the company principals, Chesebrough-Ponds, Ltd., with instructions to apply it to any charity sponsored by the Council. It was agreed to donate the money to the Benevolent Fund, and to express the Council's gratitude.

THE REGISTRAR reported that a deputation from the Council had met officials of the Department of Health and had had a long discussion with them concerning the Pharmacy Bill. The officials undertook to convey the views of the Council's representatives to the Minister and inform the Council later of the Minister's decision on the points discussed. Mr. M. Power wrote forwarding to the Society for statues which he had acquired from a pharmacy in Limerick and the registrar was asked to convey thanks to the donors.

It was agreed to add the name of Dr. Anthony Patrick Healy, 136 Lower Baggot Street, Dublin, to the register of pharmaceutical chemists, who held an L.A.H. certificate.

The following changes of address were noted: M. Guerin, L.P.S.I., to Mitchel Street, Nenagh, co. Tipperary; T. McCabe, M.P.S.I., to Hyltop, 71 Trees Road, Mount Merrion, co. Dublin, and M. P. McVeigh, M.P.S.I., to 11 Main Street, Buncrana, co. Donegal.

The following names were added to the Pharmaceutical Chemists' preliminary register: D. M. Adusei, 13A Koforodua, Ghana; A. R. Y. H. Sulleman, P.O. Box 197, Port Louis, Mauritius, and H. E. Young, 10 Scott Bushe Street, Port-of-Spain, Trinidad. The following were elected to membership: Mrs. E. Leavy, M.P.S.I., and Mr. W. M. Dolan, M.P.S.I., and the following were nominated for membership: Miss Moira Daly, Market Square, Dundalk, co. Louth; Michael Guerin, Mitchel Street, Nenagh, co. Tipperary; Jeremiah Michael O'Regan, North Main Street, Bandon, co. Cork; Mrs. Margaret M. Duffy (née McGuinness), 11 Devon Park, Lower Salthill, Galway, and Michael W. Maher, 13 James Street, Drogheda, co. Louth. THE REGISTRAR reported on the death of John Joseph Collins, M.P.S.I.

At a meeting of the Benevolent Fund Committee grants totalling £94 were passed for payment. A cheque for £350 the proceeds of the annual appeal and dance held by the Benevolent Fund Dance Committee, was forwarded by Mr. Costello, M.P.S.I. (treasurer), on behalf of the Fund. MR. M. COSTELLO said the amount of the cheque was a pleasant surprise, as dress dances had been badly attended in 1960.

Medical and Social Aspects of Addiction

AN ADDRESS TO THE SOCIETY'S SCOTTISH DEPARTMENT

"THERE are throughout the world, millions of individuals addicted to the natural drugs of opium, cannabis and coca; tens of thousands addicted to manufactured drugs, especially the opiates (morphine and diacetylmorphine) and cocaine. A smaller but increasing number are addicted to the newer synthetic narcotics such as pethidine and methadone." So said DR. F. FISH (Department of Pharmacy, Royal College of Science and Technology, Glasgow), at the fourth meeting of the 109th session of Edinburgh meetings organised by the Scottish Department of the Pharmaceutical Society.

Dr. Fish was dealing with "Some Aspects of Drug Addiction." He said that confusion existed between the terms "drug addiction" and "drug habituation," though the W.H.O. Expert Committee on Addiction-producing Drugs had clearly defined both terms. Habituation differed from addiction in that physical dependence was absent, there was desire for the drug but not compulsive craving. Tendency to increase the dose might or might not be present, and any detrimental effect was primarily on the individual and not on society.

Physical Dependence

A most serious effect, produced particularly by the opiates, was physical dependence, the body becoming so accustomed to the drug as a normal metabolite that sudden withdrawal precipitated a series of violent and painful physical reactions known as the abstinence syndrome, which was greatly feared by the morphine or diacetylmorphine (heroin) addict. About 12-18 hours after the last dose the morphine addict became restless, began to yawn, sneeze, and perspire profusely, and tears streamed down his face. The signs increased in intensity during the second twenty-four hours of abstinence, the pupils of the eyes becoming widely dilated and the addict undergoing alternate periods of sweating and intense coldness; recurrent waves of "gooseflesh" could be seen on the skin. Thirty-six hours after a dose, uncontrollable twitching of the muscles began and severe cramp developed in the legs, abdomen, and back. Appetite was lacking and there were rapid weight loss, insomnia, dyspnoea, increased respiratory rate, elevated blood pressure, and frequently diarrhoea and vomiting. After seventy-two hours the symptoms gradually subsided during a further two to seven days, leaving the addict in a weak condition.

With cocaine and cannabis, dependence was almost entirely psychological and, particularly with the latter, there were no withdrawal symptoms. For that reason cannabis was often regarded as habit-forming rather than a drug of true addiction and, in the United States, marihuana smokers were not included in the statistics relating to drug addicts. The danger with marihuana was that its users became emotionally unstable, and might easily

transfer their addiction to the more potent opiates, especially heroin. Cannabis was most unpredictable in its effects. Unlike the opium addict, who became calm and serene under the drug, the cannabis addict became boisterous and uninhibited. Cocaine, which differed in being an excitant because of its central stimulant effect, was similar to cannabis in producing extroverts who felt the thrill and buoyancy of increased power when under the influence of the drug.

In the United Kingdom drug addiction was not a serious problem, and there was no official information on the number of addicts receiving supplies from illicit sources.

The onus for treatment was on the doctor concerned, though some public hospitals, and some nursing homes which catered for alcoholics, would accept addict patients. The W.H.O. Expert Committee considered that treatment should be compulsory in the sense that it should always be undertaken, but not necessarily be in a closed institution. In some countries (for example Germany and U.S.A.), ambulatory treatment was not considered satisfactory and preference was given for admission to institutions or psychiatric departments specialising in that work. The addict was separated from his source of supply and treatment consisted of withdrawal of the drug. For opiates, methadone was often substituted for a short period to minimise the effects of the abstinence syndrome, the dose being gradually reduced. Even more important than physical cure was the long period of rehabilitation. The basic factor was psychological imbalance and that, unfortunately, was difficult to cure and accounted for the large number of recidivists. Most addicts were mentally sick persons and were deserving of pity rather than scorn. Dr. Fish concluded his paper by reviewing the development of international control of narcotics. He referred to the United Nations plenipotentiary conference in New York, arranged to consider a single convention on narcotic drugs to replace the existing multilateral drug-control treaties. The conference represented the culmination of over fifty years of fruitful international collaboration in that humanitarian field.

Discussion

DR. J. M. JOHNSTON, Edinburgh, (Department of Health for Scotland), in proposing a vote of thanks, spoke as one who had for thirty years been engaged in the clinical and therapeutic problems of drug addiction. The rise in addiction figures was largely the result of an improved system of reporting unusual amounts of drugs prescribed and dispensed; the great proportion were cases of "medical necessity" and included "therapeutic addicts," i.e., people depending upon continued medication begun for clinical reasons. He did not wholly agree with the W.H.O. definition of addiction. His

experience showed that tolerance, habituation and addiction differed only in intensity and the time-factor. There was little, if any, fundamental distinction between the narcotic addict and the addict to alcohol; the devotees of amphetamines and similar mood-stimulants were not so different from the coca eaters of Peru. The drug addict, as a rule, took his drug not for "pleasure" but as an escape from stress or pain. Doctor addicts—and at any one time they were few—could become a danger to themselves, to their patients and, when driving a car, to the public. Narcotic addiction had been kept low in this country because (1) the public conscience was against drug addiction; (2) the medical and pharmaceutical professions had high ethical standards; and (3) there were efficient police and customs enforcement officials. If any of those restraints slackened, more addiction would certainly result. Dr. Johnston said he was concerned lest there might develop a widespread addiction to barbiturates, tranquillisers, etc.—drugs beneficial when properly given, but not for indiscriminate long-term use. From hard experience he did not believe that drug addiction could be successfully treated at home or in nursing homes but required rigorous hospital in-patient care with adequate supervision and social rehabilitation. One thing to be done in civilised countries was to give severe penalties to drug pedlars. He did not think a life sentence was too much for such people.

NAPPIES COMPARED

A consumer's test report

THIRTY brands of nappies, eight of gauze and the rest terry squares, including one unbranded and four brands obtainable by mail order only, were tested recently by the Consumer's Association, Ltd. Results of the tests are published in the April issue of *Which?*, the Association's journal. The nappies were tested for toughness, absorbency, softness and construction. Shape and general condition of the nappies were inspected at the end of forty washing cycles (by the Association to be considered the equivalent of about a year's use). Only one brand, Tracoda, was found to have deteriorated by the end of that period. *Which?* found that there was little variation in quality amongst the gauze nappies, except that Hushabye was found rather weaker than the others, and did not select a "best buy." Amongst the terry squares tested, Harringtons were considered the "best buy," and three other brands, Osman, Swanella and Zorbit Superior were considered "good value for money." Christy and Jonell nappies were found of equal quality and recommended as "very good value." The Association states that, on grounds of economy alone, much could be saved by making one's own nappies—provided that terry towelling could be obtained at a reasonable price.

BRANCH EVENTS

BRIGHTON AND HOVE

University's "Great Mistake"

THE University of Sussex was making "a great mistake," said PROFESSOR W. H. LINNELL (dean of the school of pharmacy, University of London), in not including pharmacy courses. Dr. Linnell was speaking at the recent annual dinner of the Brighton and Hove Branch of the Pharmaceutical Society at Hove. Dr. Linnell said he understood that the university did not intend to consider providing such a course. Apart from the technological aspects, the tuition given to pharmacy students was the best general education received by any science students at present. "It fits young people for modern living."

YORK

Proposed Pharmacy Department

THE suggestion that a pharmacy department should be incorporated in York's proposed university was made by MR. T. HESELTINE (a member of the Society's Council) at the annual dinner of the York Branch of the Pharmaceutical Society recently. He urged pharmacists in the city to press for such a department, and said that, if the effort were successful, financial help from the Society to the extent of £5,000 or even £10,000 was almost certain. He stated that more than £10,000 was granted annually by the Society for education. MR. G. W. TREVOR (chairman) felt that more than ever pharmacists must express their views as professional men and not be "merely commercial operatives." Dispensing was changing daily but the pharmacist would continue to act as a liaison officer between doctor and patient in producing medicine in the most effective form. MR. R. N. AITKEN (vice-chairman) said he regretted so many pharmacists were leaving retail pharmacy for industry and thought that retail pharmacy should be made more interesting.

STOCKPORT

Road Services

MR. J. C. RICHARDS (Manchester office of the Automobile Association) outlined to members of the Stockport Branch of the Pharmaceutical Society on April 10 the history of the Association and the manner in which hotels and garages were "appointed." The functions of the Association's emergency and other road services were also described, and a colour film, "Coronation Safari Rally," shown. MR. G. W. YATES (social secretary), announced that the proceeds (£26 5s.) of the supper-dance held in aid of the Benevolent Fund, on March 22 were being sent to the Pharmaceutical Society.

Professional Relations

MR. A. R. G. CHAMINGS (a member of the Society's Council), addressed a well attended meeting of the Stockport Branch of the Pharmaceutical Society recently, his theme "The Pharmacist and the Doctor." Mr. Chamings stressed the importance of fostering and maintaining good relations between the two professions. Pharmacy, he said, must be in a position to advise

the doctor on the essential business of drugs. With the new extensive range of synthetic chemotherapeutic agents, it was necessary for the pharmacist to make himself completely knowledgeable. Mr. Chamings also referred to the dispensing of ethical pharmaceuticals. Which was the best way of presenting them to the patient? There was something to be said for the Continental procedure of handing the medicine over in its original container with labels. It might become desirable for dispensed medicines to be labelled with their constituents, so that the doctor could identify them at subsequent consultations. In the discussion which followed, MR. J. A. DEVOY said that, in an academic training occupying three years, considerably more time should be allocated to pharmacology.

GRIMSBY

"Back-room Boys"

It seemed unfair that pharmacists, who were highly skilled men, should receive less recognition than other professional bodies. That was the opinion of COUNCILLOR A. E. HULL (deputy mayor of Cleethorpes) speaking at the annual dinner of Grimsby and District Pharmacists' Association recently. He was proposing the toast to the Association and went on "When we are ill or in pain we always show our gratitude to doctors, nurses and dentists because we have a personal relationship with them. All too often, however, we tend to forget pharmacists, because most of them are anonymous, white coated gentlemen, busily engaged at the back of the shop." They could, he said, be described as "backroom boys." Councillor Hull suggested that the confidence which the public placed in the chemist was in itself a recognition and a tribute that might be envied by other professions. MR. S. J. WALTERS (president), replying, stressed the value of his profession and added "We are a public service and we have a duty to the community."

PORTSMOUTH

Dance in ex-Lecturer's Honour

DURING a dance held recently in Portsmouth in honour of the [then] forthcoming retirement of Mr. N. Francis, F.P.S. (senior lecturer in pharmaceuticals, Portsmouth College of Technology), MESSRS. THORPE (head of the pharmacy department) and JOHNSON (an ex-pupil) paid their respects to Mr. Francis. In his reply MR. FRANCIS recalled conditions in pharmacy as he had known them. He served his apprenticeship 1912-16, attending evening classes at the College. He qualified under the chemist and druggist regulations in 1921, and in 1923 passed his Ph.C. Between 1923 and 1927 he was in business on the Isle of Wight, and in 1927 was appointed to the staff. Joining the local branch of the Pharmaceutical Society, he was elected on to its committee, and in 1950 became chairman. Mr. Francis said that he had no definite plans for his retirement, but would be prepared to help the local branch in its activities. He wanted to start an "Old Boys' Society" for Portsmouth

College pharmacy students. On behalf of everyone in the department, Mr. Christopher W. Shaw wished him many years of health and happiness, a success in his past-students' social venture.

ISLE OF WIGHT

Doctor and Pharmacist

SOME weeks ago the Isle of Wight Branch of the Pharmaceutical Society held a joint meeting with the local division of the British Medical Association. MR. A. R. G. CHAMINGS, member of the Society's Council, spoke on "The Pharmacist and the Doctor." The present aim of pharmaceutical education, he said, was to make the pharmacist the ultimate professional authority on drugs. One problem was how to keep older pharmacists up-to-date, and there the Pharmaceutical Society could help with slides, tape-recordings and films. Despite massive research, few drugs were produced that stood the test of time, and on those the pharmaceutical industry had to depend for its profits. In discussion, Mr. Chamings said that the lower prices of some foreign drugs were often due to the absence of patent laws and of rigorous analyses. Promotion costs of new drugs, including representation, were only of the order of that prevailing in other major industries. DR. BRUCE (chairman of the local division, B.M.A.), in proposing a vote of thanks to Mr. Chamings, criticised the policy of some manufacturers in providing the doctor with information on new products before the pharmacist, who was consequently unable to advise the doctor.

PLYMOUTH

Business Methods and Records

WHEN purchasing a business, said MR. H. W. TOMSKI when he addressed members of the Plymouth Branch of the Pharmaceutical Society on "Business Methods and Records" recently, the pharmacist should always examine the profit and loss accounts and balance sheets for the previous three years. He should also inquire whether the pharmacist's salary had been charged and whether the present profit position could be maintained. He should ascertain if the fixtures were valued higher than the book value and, in the case of a branch pharmacy, whether there had been any bulk buying. Obviously benefits would accrue if that was the case that would not occur if the branch was independent. He should also investigate the basis on which valuation was made and whether the stock was saleable. Mr. Tomski gave details of income tax accounting. He pointed out that any person or firm could keep the records in any way he liked for expenses, etc., but for income tax returns all records had to be prepared in a certain way, and because of that certain allowances were now given, such as depreciation and life items, living accommodation and life assurance. On the question of wife employment, Mr. Tomski suggested that by paying a wife up to £12 per week (which was allowable as a direc-



"C&D ARTIST
AT THE
DINNER
AND
DANCE



HASTINGS

BRANCH
APRIL V
MDCCCCLXI

"HASTINGS
HAS A VERY
NICE SPIRIT"

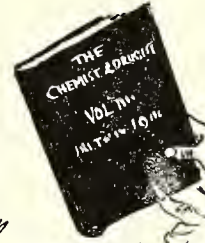


GUEST OF
HONOUR
TOM
REID
PRESIDENT
PHARMACEUTICAL
SOCIETY OF G.T.
BRITAIN

AT



"WE DO NOT
INVITE
LORD MAYORS -
EVERYBODY IN THIS
ROOM IS DIRECTLY
CONNECTED WITH
PHARMACY"



CHAIRMAN
J.T. DEPLEDGE
HAS A PHOTOGRAPHIC
MEMORY FOR PHARMACEUTICAL DATA
OVER THE YEARS!

DONALD
HUDSON
- BRIGHTON
A PAST PRESIDENT
PHARMACEUTICAL
SOCIETY OF G.T.
BRITAIN
"GREAT MAN
OF PHARMACY"



"HE LAUGHS
INSIDE"
SECRETARY
HAL ROBERTS
"EVER HAPPY
AND INDUSTRIOUS"



MISS
MARY
BURKITT
- BRIGHTON
THE TERROR
OF PROSPECTIVE
COUNCILLORS



FRANK
PELHAM
TREASURER
AND
TOASTMASTER



BERNARD
OLIVER
PRESIDENT
BRIGHTON AND HOVE
ASSOCIATION OF PHARMACY

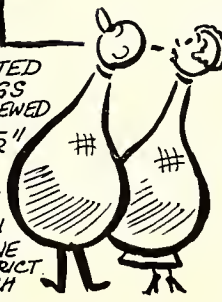


D.B.
THEAKER
"MORE REBELLIOUS
THAN EVER"
AND HIS
"THIRTY SLAVES"



HIGHER EDUCATION
FOR PHARMACISTS
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"DELIGHTED
HASTINGS
HAS RENEWED
ANNUAL
DINNER"
M.T.H.
CLARK
CHAIRMAN
EASTBOURNE
AND DISTRICT
BRANCH



tor's fee), the net amount of income tax could be reduced by approximately £100. He also considered management accounting and control by comparison.

HASTINGS

"A Good Example"

AFTER a lapse of several years Hastings and District Branch of the Pharmaceutical Society held a branch dinner and dance on April 5, and the chairman (MR. J. T. DEPLEDGE) said the committee hoped that the event would again become an annual one. A precedent was being created that evening, because they had as guests two members of Council—the president (Mr. Tom Reid) and a past-president (Mr. D. W. Hudson). Also present was an ex-chairman of the British Pharmaceutical Conference (Mr. R. R. Bennett). MR. REID, responding to the toast of the Society, proposed by Mr. Depledge, paid tribute to the South-eastern Federation of Pharmacists as the reason for the friendly spirit among pharmacists on the South Coast. Proposing a toast to the guests, DR. E. W. SKYRME said that everyone present was directly connected with pharmacy—"no lord mayors, doctors or representatives of other professions." MR. M. T. H. CLARK, Eastbourne, who replied, said it was sometimes forgotten that "social occasions are good for us." If only branches had more social activities, more members, especially younger ones, would attend. Hastings Branch was setting a good example that evening.

MERSEYSIDE

Assessment of New Drugs

"THE final determination of the value of a new drug must be done by clinical trials; animals cannot speak and therefore it is difficult to record subjective symptoms." That comment was made by DR. G. F. SOMERS (Distillers Co. (Biochemicals), Ltd.), when he talked on the pharmacological assessment of new drugs to the Merseyside branch of the National Association of Women Pharmacists recently. To the use of animals for the assessment of new drugs there were certain limitations. There was obviously a great species difference between a man and a mouse and such experiments could only be a guide. Many human diseases were difficult and impossible to reproduce in animals. Gastric and duodenal ulcers did not spontaneously occur in rats and dogs but it was possible to induce them by causing worry. One procedure was to wrap the abdomen and thorax of a rat in a plaster-of-Paris bandage. Similarly it had been possible to induce ulcers in "executive" monkeys by providing them with a key to prevent electric shocks. It was possible to infect animals with many human pathogenic bacteria. Like man they were troubled by staphylococci and streptococci, but some infections were not communicable. One example was the common cold. The use of animals had the advantage over clinical trials in that they could be used in large numbers and could be "standardised" by inbreeding. The results were precise and were readily assessed by standard statistical procedures.

Temperatures of the experimental rooms had to be kept constant and diets

to be standardised. Outlining the general programme of pharmacological studies, Dr. Somers said that in most cases it was desirable for the compound to be water soluble. "We usually administer the compound first to a few mice and carefully observe and record the effects." Many compounds were tested without marked success and clinical trials that followed promising results in animals might be disappointing in man. Dr. Somers concluded by saying "We need to know about the absorption and fate of the drug and its effect on physiological processes where biochemical studies play an important part. They include special enzyme studies, chromatographic techniques and the use of radioactive tracer techniques."

LIVERPOOL

Pharmacy Old Students

THE proposal to introduce a new category of membership—life membership—of the Liverpool School of Pharmacy Old Students' Association at an annual £10 10s. subscription was carried unanimously at the Association's annual meeting held on April 27. MR.

G. W. O'NEIL (Association secretary) reported that the main work during the year had been to establish liaison with the school of pharmacy at the City Technical College. Mr. W. E. Coates, lecturer at the School, had agreed to be a member of the committee of the Association, of which Mr. T. Bowyer (head of the school of pharmacy) was now president. It was stated that the resolution passed at the previous annual meeting, to admit final year students as associate members at a subscription of 2s. 6d., had not been implemented. MR. COATES emphasised the importance of continuity of membership and suggested that final year students should be admitted to associate membership without making any payment. That would encourage interest in the activities of the Association. His proposal was carried unanimously. Mr. E. Smalley was elected *Chairman* in succession to Mr. W. C. Fowler.

Other appointments were as follows: *Vice-chairman*, Mr. W. Coates; *Treasurer*, Mr. J. Cubbin; *Secretary*, Mr. G. W. O'Neil; *Committee*, Messrs. K. Graham, W. G. Fowler, L. Lewis and T. Edwards.

GAS LIQUID CHROMATOGRAPHY

Its applications in perfumery discussed by cosmetic chemists

THE Society of Cosmetic Chemists at a recent meeting heard MR. D. HOLNESS speak on "Gas/Liquid Chromatography in Perfumery." Mr. Holness emphasised the partition nature of gas/liquid chromatography (G.L.C.) and its value in dealing with the heat-sensitive compounds often encountered in perfumery. Its value to the perfumer, he said, lay in its ability to simplify studies of mixtures. Not all the component parts of blended mixtures could be identified by the nose, but they gave characteristic peaks on the chromatogram. In combination with infra-red methods or mass spectrometry, the method made possible the qualitative identification of components. It was of special value in quality control, where a chromatogram compared with that of a standard would clearly indicate changes in composition. Separation could be carried out on a preparative scale and the isolated fractions subjected to further analysis. That helped where previously unidentified substances were encountered.

After mentioning the use of G.L.C. in following the course of chemical reactions, Mr. Holness considered more fully the analytical applications of the technique as applied to essential oils and synthetics. Choice of correct column temperature was important, and he showed a slide of part of a chromatogram of citronella oil carried out at a temperature of 100°C. It represented components leaving the column within three hours, but the speaker pointed out that, in those conditions, some components would have retention times of up to fourteen hours. So many compounds, containing such a variety of chemical groups, were to be found in most essential oils that it was practically impossible to trace all the components in a single chromatogram. For detailed studies a preliminary prepara-

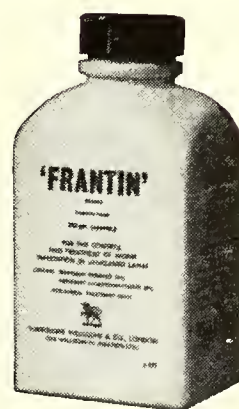
tive scale separation needed to be carried out and the fractions then subjected to individual analytical separations under suitable conditions of temperature and stationary phase. The homogeneity of individual peaks could be checked by forming derivatives, though interference might be encountered from other components. An alternative method was to use a second column containing a different stationary phase, or several runs on the same stationary phase at different temperatures. Mr. Holness gave two examples of the influence of column temperature on separation.

Quantitative analyses could be carried out by including an internal standard chosen to appear at a point on the chromatogram where the baseline was free from other components. Some variation in detector response to different components was experienced which necessitated previous calibration. Integral chromatograms facilitated measurement, and gave greater accuracy than determinations of peak areas. When G.L.C. was possible, it was usually superior to present chemical methods of analysis. Slides were shown of lavender and spike oils and lavender collected from various geographical situations and from various species of plants. They demonstrated that the relative magnitude of four peaks at the commencement of the chromatogram could be used to identify the species of plant producing the essential oil and that it was possible to observe differences in composition within a single species. A chromatogram from a single lavender flower closely resembled that of the oil itself.

At present, however, it was difficult to relate minor differences in the chromatogram to those observed by the perfumer, particularly in complex mixtures.

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TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, MAY 17: A further decline in MENTHOL was about the only price movement in the CRUDE DRUGS market during the week.

Chinese material dropped 2s. per lb. on the spot following a 2s. 6d.-per-lb. cut in the forward price; Brazilian was also down 2s. in both positions. Among SPICES White Sarawak PEPPER displayed a firmer tone although idle trading conditions prevailed. Certain grades of SENNA continue short on the spot; shipments of Tinnevely leaves and pods from Tuticorin during April were as follows:—

	U.K.	U.S.	EUROPE
SENNA	tons	tons	tons
LEAVES	3	40	16
PODS	—	—	9

Most ESSENTIAL OILS held steady at recent levels. Where there were changes they were mostly downward in direction. ANISE, which has been steadily climbing each week, reversed the trend to finish lower by threepence per lb. BOIS DE ROSE was down ninepence and LEMONGRASS threepence. Chinese PEPPERMINT for shipment was quoted 2s. 6d. per lb. lower, and Brazilian one shilling lower. LEMONGRASS on the spot was offering at 17s. 3d. per lb. (threepence down).

With business in PHARMACEUTICAL CHEMICALS at routine levels no price changes were notified by manufacturers.

A large tonnage plant for the manufacture of ETHYLENE DICHLORIDE is expected to come on stream in July or August.

Pharmaceutical Chemicals

ACETIC ACID. — B.P. glacial, minimum terms, £97 per ton naked; technical 80 per cent., £77; pure, 80 per cent., £83. Carboys and demijohns are £21 per ton extra.

ADRENALINE. — (Per gm.). Synthetic B.P. 1-kilo lots, 11d.; 500 gm., 1s. 1d. ACID TARTRATE, B.P., 1 kilo, 7½d.; 500 gm. 9d.

ALUMINIUM ACETATE.—B.P.C. in 1-cwt. sacks, 1s. 9d. per lb.

AMIDOPYRIN. — Minimum rate, 20s. 1d. per lb. with usual differentials for smalls. p-AMINOSALICYLIC ACID. — SODIUM, 17s. 6d. per kilo for 1,000-kilo lots.

AMPHETAMINE. — One to 10-kilo lots: BASE, from 140s. to 160s.; SULPHATE, 110s. to 130s. and d-AMPHETAMINE SULPHATE 405s. to 420s.

AMYLOBARBITONE. — B.P.C. is 82s. 6d. per kilo for less than 25-kilo lots and SODIUM, B.P.C., 92s. 6d. per kilo.

ARECOLINE.—Alkaloid, 51s. per oz.

ASPIRIN. — 5-cwt. lots (in kegs), 4s. 9d. per lb.; 1-cwt., 4s. 11d. CALCIUM SALT, 12s. 6d. per lb.

ATROPINE.—Rates for 16-oz. (500 gm.):

	per oz.	per kilo
	s. d.	s. d.
ALKALOID	39 0	1375 0
METHONITRATE ..	39 0	1375 0
METHYLBROMIDE ..	38 6	1357 0
SULPHATE	34 0	1198 6

BARBITONE. — Less than 25-kilo lots, 53s. 6d. per kilo. SODIUM derivative, 56s. 9d. per kilo.

BENTONITE.—B.P. about £770 per ton.

BENZOIC ACID.—One cwt., 2s. 11½d. per lb.; and SODIUM SALT, 2s. 9½d. per lb.

BRUCINE. — ALKALOID and SULPHATE 100-oz. lots, 10s. 6d. per oz.

BUTOBARBITONE. — B.P.C., 87s. 6d. per kilo in less than 25-kilo lots.

CANTHARADIN.—Per oz. 51s. for 4-oz lots.

CARMINE.—70s. per lb. for 1-cwt. lots.

CHALK.—Prepared powder B.P., £22 per ton for minimum 1-ton ex works.

CHARCOAL.—Medicinal activated, B.P.C., in 1-cwt. lots, £22 10s. per cwt.

CHINIOPHON.—B.P. 1948, 67s. per kilo; 50-kilo lots, 62s. 6d. per kilo. The sodium derivative (B.P. 1953), 99s. 4d. and 92s. 9d. for the same quantities.

CHLORAL HYDRATE. — One-cwt. lots, 4s. 6d. per lb.

CHLOROFORM.—1-cwt. lots in winchesters, 3s. 4½d. per lb.; 56-lb., 3s. 6d. In drums, 3s. 2d. and 3s. 2½d. per lb. respectively.

CITRATES.—Per lb.:

	1 cwt.	5 cwt.
	s. d.	s. d.
SODIUM†	2 7½	2 6½
POTASSIUM†	2 10½	2 9
IRON AND AMMONIUM* ..	3 6½	3 5

†Powder 3d. per lb. more. *Scales 10d. per lb. more.

COCAINE. — 16-oz. lots, HYDROCHLORIDE, 91s. 6d. per oz.; ALKALOID, 101s. per oz. Subject to D.D.A. Regulations.

CREAM OF TARTAR.—Home trade:—1-ton lots, 241s. per cwt.; 10-cwt., 242s.; 5–9-cwt., 243s.; 2–4 cwt., 244s.; 1-cwt., 245s. (If supplied in bags deduct 5s.).

CREOSOTE.—B.P. quality, ex beechwood, from 6s. 9d. to 7s. 6d. per lb.

CRESOL.—B.P. quality, 7s. 9d. per gall. in 5-gall. lots.

CYCLOBARBITONE. — Less than 25 kilos: B.P.C., 73s. per kilo. CALCIUM, 85s. per kilo.

DIHYDROXY-ACETONE.—Per kilo £9 for minimum 1-kilo lots.

DIPHENAN.—(Per lb.), 55s. 3d. (56-lb.), to 63s. (1-lb.).

EPHEDRINE. — ALKALOID nominally 6s. 6d. per oz., SULPHATE, 4s. and HYDROCHLORIDE, 3s. 3d. per oz.

ETHER.—Per lb. in winchesters: TECHNICAL B.S.S., and SOLVENT, 5-cwt., 2s. 7d.; (4s. 1d. per litre). In drums the price is 2s. 2d. per lb. ANÆSTHETIC, B.P., 5-cwt., 3s. 10d.; 10-cwt., 3s. 9d.

GALLIC ACID.—B.P., 10s. 7d. per lb. for 1-cwt. lots. Technical grade, 9s. 9d.

GLYCERIN. — Pharmaceutically pure (s.g. 1.2627):—

Annual purchases or spot lots of	Under 1 cwt.	1 cwt. and under 5-cwt.	5-cwt. and under 1 ton	1 ton and under 5 tons	5 tons and under 25 tons
Per cwt.	s. d.	s. d.	s. d.	s. d.	s. d.
DRUMS					
14-lb.	281 0	276 0	272 6	268 0	265 6
28-lb.	279 0	274 6	270 6	266 0	263 6
56-lb.	275 0	270 6	266 6	262 0	259 6
TINS					
1-cwt.	—	254 6	250 6	246 0	244 6
2½-cwt.	—	251 6	248 0	243 6	242 0
5-cwt.	—	—	247 6	243 0	241 6
10-cwt.	—	—	246 6	242 6	241 0

For 25 tons and upwards the price is from 265s. 6d. to 240s. as to containers. Bulk deliveries in tank wagons from 362s. to 237s. 6d. Technical grade glycerin s.g. 1.2627 is 5s. per cwt. less than above.

GLYCYRRHETINIC ACID.—Per gm., 2s. 3d.

HEXAMINE.—B.P., 1s. 11½d. per lb. for 1-ton lots, delivered in 1-cwt. kegs. Technical is threepence per lb. less.

HEXOBARBITONE. — 25-kilo lots or over, 115s. per kilo.

HYDROCHLORIC ACID.—B.P., 50s. per cwt. in carboys.

HYDROCYANIC ACID.—Dilute B.P.C., from 3s. 2d. to 4s. per litre, as to quantity; Scheeles from 3s. 10d. to 4s. 9d.

HYDROQUINONE. — One-cwt. lots, 11s.; 1-ton, 9s. per lb.

IODIDES. — (Per kilo). Potassium, 50-kilo lots 19s. 3d.; SODIUM, 24s. 3d. for 25-kilo lots. AMMONIUM, 45s.

IODINE.—Resublimed in less than 50-kilo lots, 25s. 4d. per kilo. Minimum delivered rate for CRUDE is 17s. 4d. per kilo.

IODOFORM.—Powder (per kilo), 51s. 6d. in 50-kilo lots; less than 50-kilos, 53s. Crystals are 3s. per lb. more.

ISOPRENALINE SULPHATE. — (Per gm.), 100-gm. lots, 1s. 6d.; 500-gm., 1s.; 1-kilo, 9d.

LACTOSE. — B.P., in 1-ton lots packed in 1-cwt. paper-lined sacks, £129 10s. per ton, delivered in the United Kingdom.

LEAD ACETATE.—B.P. crystals, 225s. per cwt.

METHADONE.—Subject to D.D.A. 16s. 3d. per 5-gm. pack.

METHYL PHENOBARBITONE.—B.P.C., 95s. per kilo for less than 25-kilo lots.

NARCOTINE.—ALKALOID and HYDROCHLORIDE, 3s. 9d. per oz. (132s. kilo) for under 35-oz. lots.

OPIATES.—Home trade prices (per oz.) subject to D.D.A. Regulations:—

	35 oz. and over	Under 35 oz.
	s. d.	s. d.
CODEINE		
PHOSPHATE	41 0	42 0
HYDROCHLORIDE ..	47 3	48 3
SULPHATE	47 3	48 3
ALKALOID	54 0	55 0
MORPHINE		
ACETATE	50 0	51 0
HYDROCHLORIDE ..	50 0	51 0
SULPHATE	50 0	51 0
TARTRATE	60 0	61 0
ALKALOID	61 3	62 3
ETHYLMORPHINE		
HYDROCHLORIDE ..	54 0	55 0
ALKALOID	63 3	64 3
DIAMORPHINE		
ALKALOID	54 9	55 9
HYDROCHLORIDE ..	59 9	60 0

PENTOBARBITONE. — Under 25-kilo lots, 115s. per kilo; SODIUM, 120s.

PETHIDINE HYDROCHLORIDE. — Subject to D.D.A. Regulations, 229s. 2d. per 250 gm.

PHENACETIN.—B.P. one-ton lots, 6s. 3d. per lb.; 1-cwt., 6s. 6d.

PHENAZONE.—Imported, 9s. 6d. per lb.

PHENOBARBITONE. — Spot rate 50-kilo lots, 47s. 6d. per kilo; 5-kilos, 50s. 6d. 500-gm., 54s. 6d. SODIUM SALT unchanged at 55s. 6d. per kilo for 5-kilo lots.

PHENYTOIN SODIUM.—One-cwt. lots, 23s. per lb.; less than 56-lb., 25s.

PHOLCODINE.—In 8-oz. lots, 85s. 9d. per oz. (3,377s. kilo).

PICROTOXIN.—Per oz. 45s. 6d. (4-oz.).

QUINALBARBITONE.—Under 25-kilos, 130s. per kilo.

SILVER SALTS.—PROTEIN, 1-cwt. lots, 8 per cent., 36s. 3d. per lb.; VITELLIN, 68s. 6d.

SULPHACETAMIDE.—One-cwt. lots, 24s. 6d. per lb. SODIUM derivative, 30s.

SULPHAGUANIDINE. — One-cwt. lots, 11s. per lb.

SULPHANILAMIDE. — One-cwt. lots, 6s. per lb.

SULPHAPYRIDINE.—Five-kilo lots, 120s. per kilo.

Crude Drugs

ACONITE. — Spot: Spanish *napellus*, 2s. 6d. per lb.

AGAR.—Kobé No. 1, 14s. 9d. per lb. in bond; shipment, 14s. 3d., c.i.f.

ALOES.—Cape primes, spot, 175s. per cwt.; shipment, 155s., c.i.f. Curaçao, spot, 480s.; shipment, 440s., c.i.f.

BALSAMS.—Per lb.: CANADA: Spot, 22s. for paper-filtered. COPAIBA: Spot, 8s. 6d. duty paid. PERU: Spot, 8s. 9d. in bond. TOLU (genuine as imported) nominal; B.P., from 12s. 3d. to 17s. 9d. as to analysis.

BELLADONNA. — LEAVES, 1s. 9d. per lb., spot. Dutch for shipment (t.a. not quoted) 2s., c.i.f. ROOT cleared on the spot.

BENZON. — Sumatra block, spot £20 to £28 as to quality.

CALABAR BEANS.—Spot, 2s. 3d. per lb.

CALAMUS.—Root, 100s. per cwt., spot. 87s. 6d., c.i.f.

CAMPOR.—B.P. powder, 3s. 10½d. per lb. in bond.

CINNAMON QUILLS.—Shipment (c.i.f., per lb.) 4 O's, 5s. 3¼; 3 O's, 5s. 1¼d.; O, 4s. 9¾d.; quillings, 3s. 3¼d.; featherings, 1s. 6¾d.

CLOVES.—Zanzibar spot, 2s. 10d. per lb.; shipment, 2s. 7½d., c.i.f.

COCHINEAL.—Black-brilliant, 11s. 6d. per lb., silver-grey 10s., spot; Peruvian silver-grey, 4s. 6d.

DIGITALIS. — *Purpurea* for shipment, old crop, 11d.; new crop, 2s. 4d. per lb., c.i.f.

ELEMI.—Spot, 2s. 1d. per lb. Shipment, 1s. 11d., c.i.f.

ERGOT. — Portuguese 7s. 9d. per lb., c.i.f., for prompt shipment; spot, 8s.

FRANGULA.—Spot, 110s. per cwt.

GENTIAN.—Spot: French, 150s. per cwt.

GINGER.—African, spot, 175s.; new crop for shipment, 165s. per cwt., c.i.f. Jamaican No. 3, spot, 200s.; shipment, 185s., c.i.f. (new crop). Cochinchina, shipment, new crop, 125s., c.i.f.; spot, 137s. 6d. (per cwt.).

GUM ACACIA. — Kordofan cleaned sorts, 146s. per cwt., spot; new crop, June shipment, 127s. 6d., c.i.f.

HENNA. — Indian, spot, 87s. 6d. per cwt., new crop for shipment, 62s. 6d., c.i.f.

HONEY. — Australian light amber, 102s. 6d. to 107s. 6d. per cwt. and medium amber, 96s. to 98s. Argentine, 110s.; Jamaican, 115s. to 120s.; Canadian clover, 145s. to 150s., all ex warehouse.

IPECACUANHA. — For shipment, c.i.f., per lb.—Costa Rican, 68s.; Nicaraguan, 66s.; Matto Grosso, 51s. nominal; Colombian, 49s. 6d. Spot: Matto Grosso, 53s. 6d.; Colombian, 54s.

JUNIPER BERRIES. — Italian, 100s. per cwt.; German, 120s.

KARAYA. — No. 1 gum, spot 325s. per cwt. nominal; No. 2, 220s.

KOLA NUTS. — Jamaican for shipment, 7d. per lb., c.i.f. African, 5½d. spot and 4d., c.i.f.

LANOLIN. — ANHYDROUS B.P., is from 170s. to 175s. per cwt. in 1-ton lots and HYDROUS, B.P., 150s., free drums, delivered.

LEMON PEEL.—Spot, 3s. 3d. per lb.

LINSEED.—Whole, 70s. to 75s. per cwt.; crushed, 105s.

LIQUORICE. — Natural root: Persian on the spot, 40s. per cwt.; other varieties cleared. Anatolian decorticated, cleared. Block juice: Anatolian from 190s. per cwt.; Italian stick from 392s. to 470s. per cwt.

LOBELIA HERB.—American spot, 8s. 9d.; shipment, 8s. 3d., c.i.f., per lb. Dutch not offering.

LYCOPodium.—Indian 11s. 6d. per lb., spot. Russian not quoted.

MACE. — Whole pale blade, 22s. per lb., spot.

MENTHOL. — Chinese: spot, 82s. per lb., duty paid; shipment, 72s. 6d., c.i.f. Brazilian, 49s. 6d., in bond; shipment, 47s., c.i.f. Formosan, 52s. 6d., in bond; shipment, 49s., c.i.f., June-July.

MERCURY. — About £67 per flask of 76-lb.

NUTMEGS. — West Indian 80's 12s. per lb., spot; sound unassorted, 8s. 9d.; defectives, 6s. 6d.

NUX VOMICA. — Shipment (per cwt.). Cochinchina 70s., c.i.f.; Madras, 65s., c.i.f.

ORANGE PEEL. — Spot: Sweet ribbon 1s. 10d. per lb.; bitter quarters: West Indian 11d.; Spanish, 1s. 3d.; bitter ribbon, 1s. 3d.

ORRIS ROOT.—Florentine, 335s. per cwt.

PAPAIN. — Tanganyikan, 14s. 6d. per lb., c.i.f., for grade one; spot 15s. Ceylon brown, 14s. 6d.

PEPPER.—White Sarawak, spot, 4s. per lb.; shipment, 3s. 10½d., c.i.f. Black Sarawak, spot, 3s. 3d.; shipment, 3s. 1½d., c.i.f. Black Malabar, 400s. per cwt. spot, and 360s., c.i.f.

PEPPERMINT. — Dutch whole leaves, 3s. per lb., c.i.f.

PIMENTO.—Spot, 560s. cwt.; shipment, 540s., f.o.b.

PODOPHYLLUM.—*Emodi*, 190s. per cwt., spot; shipment not quoted, *Peltatum*, 375s.

PYRETHRUM.—Extract, minimum 25 per cent. w/w pyrethrins, 75s. per lb. for small lots.

QUILLAIA. — Ex wharf Hamburg, 175s. per cwt.; shipment, 165s., c.i.f., nominal.

RHUBARB.—Chinese small rounds from 5s. 6d. to 6s. 9d. per lb. on the spot.

SAFFRON.—Mancha selecta, 147s. 6d. per lb.

SARSAPARILLA. — Jamaican native red spot, 2s. 7d. per lb.; shipment, 2s. 2½d., c.i.f.

SEEDS.—(Per cwt.). ANISE. — Spanish, 210s., duty paid. CARAWAY. — Dutch, 162s. 6d., duty paid. CELERY.—Indian, 152s. 6d., spot; new crop June-July shipment, 130s., c.i.f. CORIANDER. — Moroccan, 135s., duty paid; new crop for June-July shipment, 93s., c.i.f. CUMIN. — Indian lower at 175s.; Iranian, 165s., duty paid. DILL.—Indian, 97s. 6d., spot paid; shipment, 82s. 6d., c.i.f. FENNEL.—Chinese 105s., duty paid; Indian, 105s. FENUGREEK. — Moroccan, 75s., duty paid; prompt shipment, 59s.; new crop for June-July shipment, 55s., c.i.f. MUSTARD.—English, 60s. to 95s., according to quality.

SENNA. — *Timnevelly* LEAVES, prime No. 1 cleared; f.a.q. No. 3, 9d. PODS: manufacturing (f.a.q.), 9d. and hand-picked, 1s. 5d. to 1s. 10d. *Alexandria* pods: Manufacturing, 1s. 6d.; hand-picked, 4s. 6d. to 5s. 6d.

SHELLAC.—F.O.T.N., 202s. 6d. per cwt.; No. 1, 225s.; F.O., 235s. to 285s. spot.

SLIPPERY ELM.—Bark, 3s. 6d. lb. landed value.

SQUILL.—White 75s. per cwt., spot.

STRAMONIUM. — Indian LEAVES 60s. per cwt., spot. Dutch 0.5 per cent. alkaloid 93s., c.i.f.

STYRAX. — Spot, 27s. 6d. per lb., shipment, 26s., c.i.f.

TURMERIC.—Madras finger on spot 115s. per cwt.; shipment, 95s., c.i.f.

WAXES. — (Per cwt.). BEES'.—Dar-es-Salaam, spot, 460s.; shipment, 445s., c.i.f. Abyssinian, spot 390s. in bond; shipment 375s., c.i.f. Sudanese, spot, 410s. nominal; shipment, 360s., c.i.f. CANDELILLA, spot, 465s. CARNAUBA, fatty grey, spot, 450s.; shipment, 432s. 6d., c.i.f.; prime yellow, spot, 675s., shipment, 615s., c.i.f.

WITCH HAZEL LEAVES. — Spot cleared; origin not offering.

Essential and Expressed Oils

ALMOND.—Moroccan, 6s. per lb., duty paid.

AMBER.—Rectified on the spot, 1s. 6d. per lb.

ANISE.—Chinese, 8s. 1d. per lb., spot shipment, 7s. 10½d., c.i.f.

BAY.—West Indian short on the spot prices nominal.

BOIS DE ROSE.—Brazilian, 13s. 6d. per lb. on the spot and 12s. 6d., c.i.f.

CAJUPUT.—Spot from 10s. per lb.

CALAMUS.—Spot, 56s. 6d. per lb.

CASSIA.—Short with prices nominal.

CEDARWOOD.—American rectified 8s. per lb. on the spot.

CINNAMON. — From quillings, best English-distilled is 50s. per oz.; other B.P. oil from 165s. per lb. Ceylon leaf, spot 9s. 6d. per lb.; Seychelles, 8s., spot.

CITRONELLA. — Ceylon, spot, 6s. 6d. shipment, 6s. 3d. per lb., c.i.f. Formosan, spot, 6s. 10½d., in bond; shipment, 6s. 4d. c.i.f.

CLOVE.—Madagascar leaf, spot, 7s. 6d. per lb., duty paid; shipment, 6s. 6d., c.i. Rectified 87-88 per cent., 12s. Distilled bud-oil, English, B.P., 28s. for 1-cwt. lot.

COD-LIVER. — B.P. is 11s. 6d. per gal including charged returnable drums. Veterinary is from 9s. 6d. per gall. Delivered terms, 25-stone lots.

CUMIN. — Imported oil, 90s. per lb. English-distilled, 120s.

GERANIUM.—Bourbon, 120s. to 130s. per lb. on the spot: Algerian, 120s. to 125s.

GINGER.—Imported: Jamaican, 130s. per lb.; Chinese, 72s. 6d., duty paid.

GRAPEFRUIT.—Florida, 18s. per lb.

JUNIPER. — B.P.C. 1949 oil is from 15s. per lb. on the spot. English-distilled 150s. JUNIPER WOOD, from 5s.

LAVANDIN.—Spot from 7s. per lb. for original drums.

LAVENDER.—From 17s. to 50s. per lb. as to quality.

LAVENDER SPIKE.—Spanish, 12s. per lb. for original drums.

LEMONGRASS. — Spot, 17s. 3d. per lb. shipment, 16s. 3d., c.i.f.

NUTMEG.—Imported B.P. oil is from 50s. to 90s. per lb. as to source. English distilled, 140s.

OLIVE. — Spot, 19s. 3d. to 20s. 3d. per gall. in drums ex wharf; shipment, £190-£205 per 1,000 kilos, f.o.b. Spanish port.

OTTO OF ROSE.—Bulgarian, 400s. per oz. Turkish, £350 per kilo.

PALMAROSA. — Spot, 37s. 6d. per lb. shipment, 36s., c.i.f.

PEPPERMINT. — *Arvensis*: Chinese spot 38s. 6d.; shipment, 35s., c.i.f. Brazilian, spot, 15s. 6d.; May-June shipment 14s. 9d., c.i.f. *Piperita*: Italian, 48s. per lb., spot. American from 30s. to 38s. per lb. as to make.

PETITGRAIN.—Paraguay, 18s. 9d. per lb. spot; shipment, 18s., c.i.f.

PIMENTO. — English-distilled berry 167s. 6d. per lb.; imported, 77s. 6d. Rectified leaf, 27s. 6d. per lb. for small lots.

SPEARMINT.—American oil on the spot 40s. per lb.

TANGERINE.—From 19s. to 28s. per lb. as to quality.

VEITVER. — Bourbon spot, 110s. to 112s. 6d. per lb.; shipment, 108s., c.i.f.

YLANG YLANG.—Spot, 37s. 6d. per lb.

UNITED STATES REPORT

NEW YORK, MAY 16: WITCHHAZEL LEAVES firmed up five cents to 60 cents a lb. ROSEMARY OIL was stronger in price at \$1.12 a lb., up 12 cents. SPEARMINT OIL at \$5 was down 50 cents per lb.

WORLD TRADE

Portugal Seeking German Aid.—An extensive list of requests from Portuguese industry for aid from West Germany, either in the form of capital or "know-how," was published recently by the Commission for Portuguese-German Co-operation. In the pharmaceutical field, Sanitas (Cortez, Pinto and Pimentel), a leading drug manufacturer in Portugal is seeking collaboration with German companies.

Denmark Tariff Move Report.—Denmark will shortly increase its tariffs towards the Common Market to the same level as the market's outward tariff wall. According to the independent newspaper *Kristeligt Dagblad*, Denmark has not been given "satisfactory compensation" under G.A.T.T. (General Agreement on Tariffs and Trade) for increased West German and Italian tariffs, which were set up to equalise Common Market tariff levels.

TELEVISION

Figures in the columns represent number of appearances of the product during the week.

May 28-June 3	London	Midland	North	Scotland	Wales	South	N.E.	Anglia	Ulster	Westward
Acme "Voyager" flask ..	—	—	—	1	—	—	—	—	—	—
Alka-Seltzer ..	1	3	2	2	1	2	1	1	1	2
Anadin ..	3	—	2	—	1	—	—	4	—	4
Andrews liver salts ..	1	2	2	—	3	4	3	3	3	3
Andrexx ..	—	—	—	—	—	—	—	—	—	3
Anne French ..	—	—	—	—	—	—	1	—	—	—
Askit powders ..	—	—	12	—	—	—	—	—	—	—
Aspro ..	3	2	2	3	2	2	2	2	—	2
Beecham's pills..	1	1	1	—	—	1	1	1	1	—
powders..	—	—	—	—	—	—	—	—	—	3
Bisodol ..	—	3	—	—	—	3	—	—	—	—
Body Mist ..	1	—	—	—	—	1	—	—	—	—
Bonio ..	—	—	—	—	—	—	—	—	—	5
Bristow's shampoos ..	2	1	1	1	1	1	—	—	—	—
Brylcreem ..	4	3	2	3	4	2	1	2	3	3
Cooper's aerosols	4	3	3	3	3	3	3	3	3	3
Cuticura ..	—	2	—	2	—	—	—	—	2	—
Delrosa ..	—	—	2	—	—	—	—	—	1	—
Dispel ..	—	—	2	—	—	—	—	—	—	—
Dramal ..	—	—	—	—	—	—	—	1	1	1
Elliman's foot cream ..	1	1	1	—	—	—	—	—	—	—
Fashion Style ..	1	1	1	—	—	—	—	—	—	—
Germolene ..	3	—	3	3	3	3	3	3	3	2
Immac ..	—	—	—	—	—	—	1	—	1	—
Kleenex ..	—	—	1	—	—	—	—	—	—	—
Loxene shampoo	2	1	1	1	1	1	1	1	1	2
Macleans tooth-paste ..	3	3	3	3	3	3	4	3	3	3
Milk of Magnesia ..	1	—	—	1	—	1	—	1	—	—
tablets..	2	—	—	2	2	2	1	2	—	—
Mum Rollette ..	1	1	1	—	—	—	—	—	—	—
Phillips tooth-paste ..	—	—	—	—	—	—	—	—	—	2
Phyllosan ..	1	1	1	—	1	1	1	1	1	1
Poppet ..	—	4	—	—	—	4	—	4	—	—
Pretty Quick ..	—	—	—	5	—	—	—	—	—	—
Quota ..	3	—	—	—	—	—	—	—	—	—
Rennies ..	—	—	—	—	—	—	—	—	—	4
Rinstead pastilles	1	—	2	—	1	1	1	1	1	—
Schick razors ..	2	—	—	—	—	—	—	—	—	—
Sek ..	—	1	1	—	—	—	—	—	—	—
Setlers ..	—	—	—	1	—	—	—	—	—	—
Silvikrin shampoo	—	—	—	—	—	—	—	—	—	5
Smokies ..	—	—	—	—	—	1	—	2	—	—
Span shampoo ..	4	—	—	—	—	3	—	—	—	—
Star spray ..	—	—	—	—	—	1	—	—	—	—
Thermos ..	—	—	1	—	—	—	—	—	—	—
Topcat ..	—	4	—	—	—	—	—	—	—	5
Vosene shampoo	1	—	—	1	—	—	1	1	1	—
Winspray ..	1	—	—	—	—	—	—	—	—	—



DISPLAY ITEMS: Left, Displaypiece produced by Duncan, Flockhart & Co., Ltd., 16 Wheatfield Road, Edinburgh, 11, is described as a "professional showcase" because, as will be seen, it carries on its reverse side technical details for the pharmacist. Centre: A "dispenser" stand for Tru-gel hair dressing (makers: Nicholas Products, Ltd., Slough, Bucks). Right: Latest showcard produced by Parke, Davis & Co., Staines Road, Hounslow, Middlesex, for Euthymol tooth-paste.

PRINT AND PUBLICITY

PRESS ADVERTISING

BURROUGHS WELLCOME & CO. (The Wellcome Foundation, Ltd.), Wellcome Building, Euston Road, London, N.W.1: Marzine. In *Daily Express*, *Daily Mirror*, *Woman*, *Woman's Own*, *Woman's Mirror*, *Woman's Realm*; Saxin. In *Daily Express*, *Daily Mail*, *Daily Mirror*, *Daily Telegraph*, *Woman*, *Woman's Own*, *Woman's Mirror*, *Belfast Telegraph*, *Edinburgh Evening News*, *Glasgow Daily Record*.

COSETTE, LTD., 21 Beauchamp Place, London, S.W.3: Cosette briefs. In *Woman*, *Woman's Own*, *Modern Woman*, *She*, *Woman & Beauty*.

COUNTY LABORATORIES, LTD., Beecham House West, Great West Road, Brentford, Middlesex: Macleans tooth-paste. In *The Times*, *Daily Express*, *Daily Mirror*.

DOMESTOS, LTD., College Works, Albion Road, Newcastle-on-Tyne: Stergene. In provincial Press and women's magazines, concentrating on non-TV areas.

ALFRED FRANKS & BARTLETT CO., LTD., 226 Gray's Inn Road, London, W.C.1: Bartex sunglasses. In *Daily Express*.

GERHARDT-PENICK & CO., LTD., Thornton Laboratories, Purley Way Croydon: Tums. In *Daily Express*, *Daily Mirror*, *Daily Herald*, *News of the World*, *Sunday Pictorial*, *Sunday Express*, *Belfast Telegraph*.

GLAXO LABORATORIES, LTD., Greenford, Middlesex: Ostermilk, Farex. In national dailies and women's magazines.

F. W. HAMPSHIRE & CO., LTD., Sunnysdale, Derby: Loxene medicated shampoo. In *Daily Express*, *Daily Mirror*.

PINAUD, LTD., Elstree Way, Boreham Wood, Herts: Pinaud Eau de Portugal. In *London Evening News*, *Evening Standard*.

PLASTIC RESEARCH & DEVELOPMENT, LTD., 8 Park Road, London, N.W.1: Kristina home masseuse. In *Vogue*, *Woman's Journal*, *Woman & Beauty*, *Housewife*, *Everywoman*.

THE PULLIN OPTICAL CO., LTD., Ellis House, Aintree Road, Perivale, Greenford, Middlesex: Paximat projectors, Olympus cameras, Titania slide holders, Radiant screens. In *Amateur Photographer*, *Photography*, *Practical Photography*, *Modern Camera Magazine*, *Good Photography*, *I.B.P. Record*, *Amateur Movie Maker*, *The Photo Trade World*, *Photographic Retailer*.

QUAKER OATS, LTD., Bridge Road, Southall, Middlesex: Quota. In *London Evening News*, *Evening Standard*.

ROLLS RAZOR, LTD., Cricklewood Broadway, London, N.W.2: Man-Tan, Positan. In *Sunday Express*, *Woman's Mirror*, *Reveille*, *Today*, *Daily Mirror*, *True Romance*, *Photoplay*, *Daily Mail*, *ABC Film Review*, *Weekend*.

RONSON PRODUCTS, LTD., 352 Strand, London, W.C.2: Ronson CFL shaver. In *News of the World*, *People*, *Sunday Express*, *Sunday Pictorial*, *Glasgow Sunday Mail*.

SMITH & NEPHEW, LTD., Bessemer Road, Welwyn Garden City, Herts: Elastoplast. In *Daily Ex-*

press, *Daily Mirror*, *Daily Mail*, *Daily Herald*; Nivea. In *Daily Express*, *Daily Mirror*; Pretty Feet. In *Woman's Realm*, *Woman's Mirror*; Sunea. In *Daily Express*, *Daily Mirror*.

SPRATT'S PATENT, LTD., 41 Bow Road, London, E.3: Mixed Ovals, Bonio. In *Daily Mirror*, *May*; Topcat. In *TV Times*; Topdog. In *TV Times*, *The Viewer*, *Television Weekly*, *Look Westward*.

WHITAKER & CO. (KENDAL), LTD., Kendal, Westmorland: Luton straw hat dyes, Auroral cold water dyes. In domestic magazines.

DISPLAY MATERIAL

CUPAL, LTD., King Street, Phenix, Blackburn, Lancs: Secto display unit.

COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of insertion.

Tuesday, May 23

SOCIETY OF INSTRUMENT TECHNOLOGY, 26 Portland Place, London, W.1, at 6 p.m. Annual meeting.

Wednesday, May 24

FOOD GROUP, SOCIETY OF CHEMICAL INDUSTRY, 14 Belgrave Square, London, S.W.1, at 6.15 p.m. Annual meeting. Mr. T. McLachlan on "Some Historical Notes on Food Technology."

MANCHESTER PHARMACEUTICAL GOLFING SOCIETY, Reddish Vale. Play for Ucal trophy and prize.

Thursday, May 25

NORTHERN SCOTTISH BRANCH, PHARMACEUTICAL SOCIETY, National hotel, Dingwall, at 8 p.m. Annual meeting. Mr. R. Mackay on "The Pharmacy and Poisons Acts in Retail Practice."

PORTSMOUTH BRANCH, PHARMACEUTICAL SOCIETY, Royal Beach hotel, Southsea, at 7.45. Branch representatives' report.

Friday, May 26

CROYDON BRANCH, PHARMACEUTICAL SOCIETY AND ASSOCIATION, Greyhound hotel, High Street, Croydon, at 7.30 p.m. Annual meeting. At 8.15 p.m. "The Art of Beauty—Visible and Invisible." Cosmetic demonstration by Mrs. Eileen Taylor (Coty (England), Ltd.).

EAST METROPOLITAN BRANCH, PHARMACEUTICAL SOCIETY, Danescourt, Church Hill, Walthamstow, at 8 p.m. Annual meeting.

Advance Information

EXHIBITION OF FRENCH GIFTS AND FANCY GOODS, Quaglino's, Bury Street, London, S.W.1. June 13-15.

INSTITUTION OF CHEMICAL ENGINEERS, Royal Commonwealth Society, Craven Street, London, W.C.2, at 2.30 p.m. Symposium on Biochemical Engineering. May 30.

PATENTS

COMPLETE SPECIFICATIONS ACCEPTED From the "Official Journal (Patents)," May 10

- Ion-exchange reagent.* National Research Development Corp. 871,541.
- Phthalazines and process for their manufacture.* CIBA, Ltd. 871,753.
- Basically substituted diphenyl-carbinol-esters and a process for their manufacture.* Farbwerke Hoechst, A.G. 871,757.
- Process for the production of borohydrides.* Farbenfabriken Bayer, A.G. 871,569.
- Benzimidazoles.* CIBA, Ltd. 871,808.
- Steroids and the manufacture thereof.* Upjohn Co. 871,764.
- Phenthiazine derivatives.* Society des Usines Chimiques Rhone-Poulenc. 871,412.
- 8-hydroxyquinoline derivative.* Dermasan, Ltd. 871,630.
- Method of producing hydrides of tin.* Kali-Chemie, A.G. 871,642.
- N-(4-sulphonamidophenyl)-butane sultam.* Farbenfabriken Bayer, A.G. 871,449.
- Catalytic reduction of 6-hydroxy hydronaphthalenes.* American Cyanamid Co. 871,699.
- 6-Deoxytetracyclines.* American Cyanamid Co. 871,423.
- Recovery of the antibiotic mitomycin from a fermentation broth.* Bristol Laboratories International, S.A. 871,481.
- Steroid compounds.* G. D. Searle & Co. 871,487.
- Steroids and compositions thereof.* Upjohn Co. 871,283.
- Dithiophosphoric acid ester and pesticidal preparations containing the ester.* Farbwerke Hoechst, A.G. 871,339.
- Organic compounds containing phosphorus and sulphur.* Monsanto Chemical Co. 871,695.
- Substituted pyridazones and mixtures containing same.* Badische Anilin and Soda-Fabrik, A.G. 871,674.
- Organophosphorus herbicides.* T. A. Clayton. 871,676.
- Water-soluble steroid compounds and a process for their manufacture.* A. G. Schering. 871,490.
- Absorbent bandages.* Kimberly-Clark Corporation. 871,435.
- Catamential tampon.* Tampax Inc. 871,689.
- Oxygenator.* T. H. Gewecke and C. R. Broman. 871,744.
- British patent specifications are obtainable (price 3s. 6d. each) from the Patent Office, 23 Southampton Buildings, Chancery Lane, London, W.C.2.

TRADE MARKS

APPLICATIONS ADVERTISED BEFORE REGISTRATION

From the "Trade Marks Journal," May 3

- For optical and ophthalmic apparatus and instruments, and parts (9)*
- IGARDPAN, 813,487, by Combined Optical Industries, Ltd., Slough, Bucks.
- For optical apparatus and instruments and parts and fittings (9)*
- SPECTIFIER, 815,423, by George Cohen Sons & Co., Ltd., London, W.12.
- For thermometers (9)*
- Device with letters TS, 816,436, by Technicke Sklo, Národní Podnik, Sazava, Czechoslovakia.
- For instruments and apparatus for massaging (10)*
- CALIMASCO, 814,773, by Callinan Giles & Co., Ltd., London, W.1.
- For electronic analgesic apparatus operating on the auditory system (10)*
- AUDIAC, 816,663, by Ritter Co., Inc., Rochester, New York, U.S.A.

From the "Trade Marks Journal," May 10

- For seed dressings (1)*
- PANOGEN, 794,690, by Shell Chemical Co., Ltd., London, E.C.3.
- For aromatic preparations for industrial use (1)*
- MAYROSOL, 807,440, by May & Baker, Ltd., Dagenham, Essex.
- For lavender water, non-medicated toilet preparations and soaps (3)*
- FIELDS OF BOND STREET, 805,594, by J. C. & J. Field, Ltd., Salford, Manchester, and London, W.1.
- For all goods (3) and for disinfectants, and preparations for killing weeds and destroying vermin (5)*
- Device with words BURNUS, 805,982-83, by Röhm & Haas, G.m.b.H., Darmstadt, Germany.

For all goods (3)

- OLALIN, 807,722, by C. H. Boehringer Sohn, Ingelheim on Rhine, 22b, Germany.
- SABS, 814,752, by John Knight, Ltd., London, E.16.
- KRESPIT, 817,333, by Thompson & Capper, Ltd., Liverpool, 24.

For cosmetic preparations for the lips (3)

- LIPSLIK, B807,741, by Mincer's Make Up, Ltd., Surbiton, Surrey.

For perfumes, cosmetics and non-medicated toilet preparations (3)

- INSPIRATION, 812,749, by Merton Jan Behrman, London, N.W.9.

For non-medicated toilet preparations containing lanolin, in cream form and for inhibiting the splitting of finger nails and encouraging the growth (3)

- LANONAIL, 813,120, by French Perfumery Co., Ltd., London, S.W.1.

For detergents for domestic purposes and being for sale in the Counties of Salop, Derby, Leicesters, Stafford, Chester, Nottingham, Worcester, Warwick, Merioneth, Montgomery, Caernarvon, Flint and Denbigh, and in the West Riding of Yorkshire (3)

- BLEM, 813,254, by Leicesters (Burslem), Ltd., Stoke-on-Trent, Staffs.

For streptokinase for use in medicine and pharmacy (5)

- KINALYSIN, 799,727, by Merck & Co., Inc., Rahway, New Jersey, U.S.A.

For perfumes, toilet preparations, cosmetic preparations, dentifrices, depilatory preparations, toilet articles (not included in other classes), sachets for use in waving the hair, soaps and essential oils (3) and for pharmaceutical preparations and substances; deodorants and medicated toilet preparations for the treatment of the skin and scalp (5)

- CLUBMAN, 814,882-83, CLUB TIE, 816,006-07, by Osmond & Sons, Ltd., Grimsby.

For all goods (5)

- BUTIBEL, 795,612, by McNeil Laboratories, Inc., Philadelphia, Pennsylvania, U.S.A.
- MY-B-DEN, 805,065, by Ames Company, Inc., Elkhart, Indiana, U.S.A.
- CANILEP, 808,849, by Glaxo Laboratories, Ltd., Greenford, Middlesex.
- ELUBRAL, 809,312, by C. H. Boehringer Sohn, Ingelheim on Rhine, 22b, Germany.
- CONOVID, 809,336, by G. D. Searle & Co., Skokie, Illinois, U.S.A.
- KESPORIN, 812,138, by Distillers Co. (Biochemicals), Ltd., Speke, Liverpool, 24.
- LAEVADOSIN, 813,855, by Coffarom, A.G., Glarus, Switzerland.
- HORLIKAL, 815,630, by Horlicks, Ltd., Slough, Bucks.
- TAPERIN, 815,991, by Allied Laboratories, Ltd., London, W.1.

For pharmaceutical preparations and substances for external use in the treatment of skin diseases (5)

- CAMYNA, 796,565, by C. H. Boehringer Sohn, Ingelheim on Rhine, 22b, Germany.

For dietary milk food preparations (5)

- SIMILAC, 800,201, by M. & R. Dietetic Laboratories, Inc., Columbus, Ohio, U.S.A.

For pharmaceutical preparations and substances (5)

- HYASORB, B803,197, by Key Pharmaceuticals, Inc., Miami, 37, Florida, U.S.A.
- COPHAZIN, 805,182, by Pharmacy Products (Overscas), Ltd., London, W.1.
- DIURAUPUR, 812,523, by Gebrüder Giuliani, G.m.b.H., Ludwigshafen-on-Rhine, Germany.
- FLUGEN, 815,236, by Beecham Research Laboratories, Ltd., Brentford, Middlesex.

For veterinary medicines (5)

- FELIVAC, 812,913, by International Serum Co., Ltd., London, N.W.7.

For pharmaceutical preparations for use in the prevention and treatment of thrombosis, arteriosclerosis and allied complaints (5)

- MAYDISOL, 807,379, by Joseph Albert Johnson Mitcheson, Annfield Plain, co. Durham.

For laxatives (5)

- INFUSILAX, 811,798, by Pharmacy Products (Overscas), Ltd., London, W.1.

For pharmaceutical preparations for topical use for the treatment of dermatological complaints (5)

- DECADERM, 811,350, by Merck & Co., Inc., Rahway, New Jersey, U.S.A.

For veterinary preparations (5)

- CANIFOR, 816,949, DELTAFRAL, 817,296, by Agrifor, Ltd., London, S.W.1.

For natural and artificial sponges (21)

- HOUSEPROUD, 807,354, by Sponcel, Ltd., London, W.C.2.

For fungicides and acaricides, all being pharmaceutical preparations (5)

- WEPSYN, 806,751, by N.V. Philips-Dupha Amsterdam, Holland.

For pharmaceutical, veterinary and sanitary substances, infants' and invalids' foods, medicated and surgical plasters, material prepared for bandaging, gauzes (dressings), material for stopping teeth, dental wax, disinfectants, preparations for killing weeds and destroying vermin (5)

- DUMOCYCLIN, 815,011, by A/S Dumex (Dumex, Ltd.), Copenhagen S, Denmark.

For insecticides and moth-repelling and moth-destroying preparations, all for export except the Irish Republic (5)

- FLORET, device with word FLORET, 816,188, by Reckitt, Colman, Chiswick (Overseas Ltd., Hull, Yorks).

For pharmaceutical and medicinal preparations and substances (5)

- CORBERNON, 817,079, by Veritas Drug Co. Ltd., London, N.W.9.

For medicated preparations derived from cholera (5)

- CHOLISATE, 811,845, by Ashe Laboratories Ltd., Leatherhead, Surrey.

For disinfectants, veterinary preparations, insecticides, fungicides, larvicides, germicides, and preparations for killing weeds and brushwood (5)

- BURTOLIN, 817,290, by Burt, Boulton & Haywood, Ltd., London, W.C.2.

For optical and photographic apparatus and instruments; lenses, magnifying glasses; and readers and photographic exposure tables (9)

- SUPER-ANGULON, 814,220, by Jos. Schneider & Co., Kreuznach/Rhineland, Germany.

For electrically-heated pads for warming and airing beds, and electrically-heated blankets (10)

- GALA, 810,377, by A.E.I.-Hotpoint, Ltd. London, S.W.1.

WILLS

MR. A. BUCHANAN, M.P.S., 35 Smitham Bottom Lane, Purley, Surrey, left £7,091 (£2,041 net).

MR. F. W. BUCHANAN, M.P.S.N.I., 31 Eglinton Street, Portrush, co. Antrim, left personal estate in England and estate in Northern Ireland value at £14,816.

MR. W. G. CHEETHAM, M.P.S., 10 Wilton Road, Higher Crumpsall, Manchester, 8, left £4,799 (£4,728 net).

MR. T. CHILTON, M.P.S., 75 Derby Road, Huyton, nr. Liverpool, Lanes, left £14,45 (£13,904 net).

MR. C. DAVIES, M.P.S., 51 Thompson Street, Barry, Glam., left £2,976 (£2,888 net).

MR. W. EDWARDS, M.P.S., The Pharmacy, Conway Road, Mochdre, Colwyn Bay, Denbighshire, left £12,988 (£11,250 net).

MR. J. E. M. EVANS, M.P.S., 298 Woodborough Road, Nottingham, left £2,704 (£2,658 net).

MR. S. W. GALLOWAY, M.P.S., 331 Cannon Hill Lane, West Wimbledon, London, S.W.20, left £5,561 (£3,717 net).

MR. W. W. HARRISON, M.P.S., 35 Ferguson Lane, Newcastle-on-Tyne, 5, left £7,484 (£6,62 net).

MR. J. F. HART, F.P.S., Ashmead, Ross-on-Wye, Herefordshire, left £61,090 (£59,361 net).

MR. G. P. A. HUNT, F.P.S., 9 Devonshire Road, Southampton, Hants, left £8,089 (£8,018 net).

MR. J. J. JOHN, M.P.S., 1 Beauchamp Road, Twickenham, Middlesex, left £4,139 (£4,073 net).

MR. E. M. MELLOR, M.P.S., The Redlands, 35 New Road, Uttoxeter, Staffs, left £24,882 (£22,978 net).

CONTEMPORARY THEMES

Subjects of contributions in current medical and technical periodicals.

ACUTE BARBITURATE INTOXICATION, *J. Amer. med. Ass.*, April 29.

ISOCARBOXAZID, experience with, *J. Amer. med. Ass.*, April 29.

LONG-TERM ANTICOAGULANT THERAPY in coronary disease, *J. Amer. med. Ass.*, April 22.

ANTICOAGULANT THERAPY, a new test for, *J. Amer. med. Ass.*, April 22.

When your customers ask for 'vitamins'...

For general purposes

for nutritional support in convalescence or because of prolonged ill-health, BEMAX is particularly recommended.

For BEMAX contains a high proportion of protein (27%), vitamins of the B-complex and E, together with important minerals such as iron. Easily digested and readily taken with a variety of foods, it is invaluable at all age levels.

BEMAX

Packs of 5, 10 and 20 ozs.

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and for the febrile, VITAVEL SYRUP is specially valuable. It is water-miscible and has a most attractive taste, readily acceptable to children and others who dislike fish-liver oils. It is a combination of the important vitamins, A, B₁, C and D in an orange-flavoured syrup base.

VITAVEL SYRUP

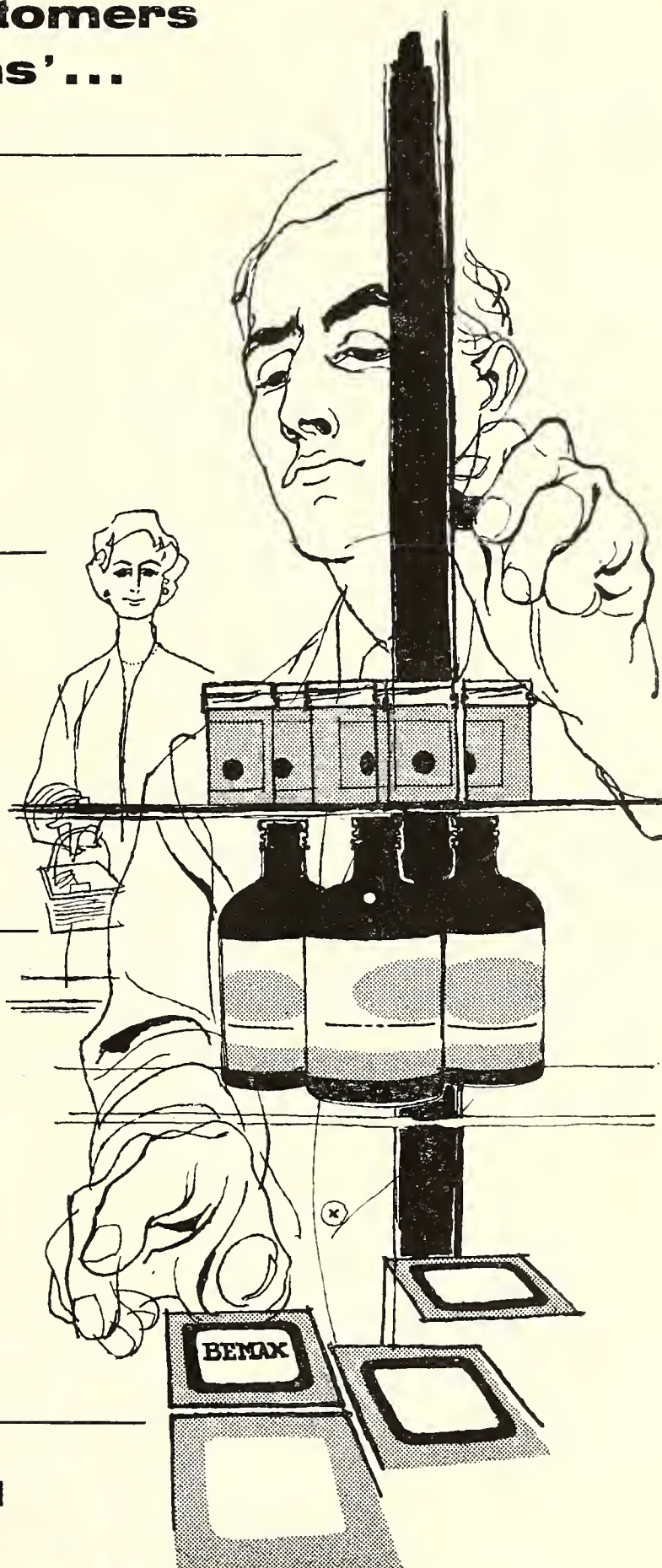
*Basic price to N.H.S. 6 fl. ozs. 2/6,
40 fl. ozs. 16/-.*

For pregnancy and lactation

The special nutritional needs of the pregnant and lactating mother have been met in PREGNAVITE which has found favour with the medical profession for more than 20 years. This preparation supplies just those vitamins and minerals which are needed in increased amounts during pregnancy and lactation, in the quantities estimated to be needed in addition to normal dietary supplies.

PREGNAVITE

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Basic price to N.H.S. 1,000 tablets 32/9.*



**... recommend
a product from**



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8-Methoxypsoralen

Riddell Products, Ltd., note that the Council of the Pharmaceutical Society have decided to ask the Secretary of State for Home Affairs to place 8-Methoxypsoralen in Part 1 of the Poisons List and in Part B of the 4th Schedule to the Poisons Rules.



As the Tan-if-ic formula contains a small quantity of 8-Methoxypsoralen, the above inclusion would make

it impossible for Riddell Products, Ltd. to implement their proposed national advertising for this product.

Riddell Products, Ltd., therefore, request all Chemists and Wholesale Chemists who hold stocks of Tan-if-ic to return them forthwith to Riddell Products, Ltd. for credit.

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Miss Beatson has IT!

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a unique self-sterile Ointment that compares with no other in the treatment of:—

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BEDSORES •
IMPETIGO •
NAPKIN RASH •
DERMATITIS •
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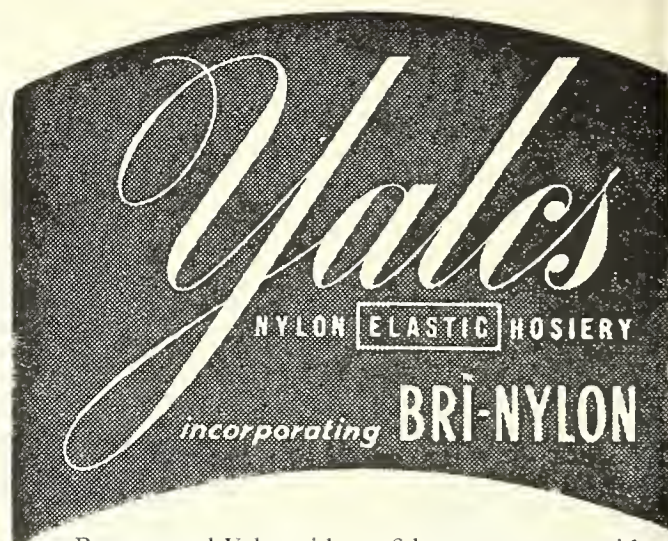
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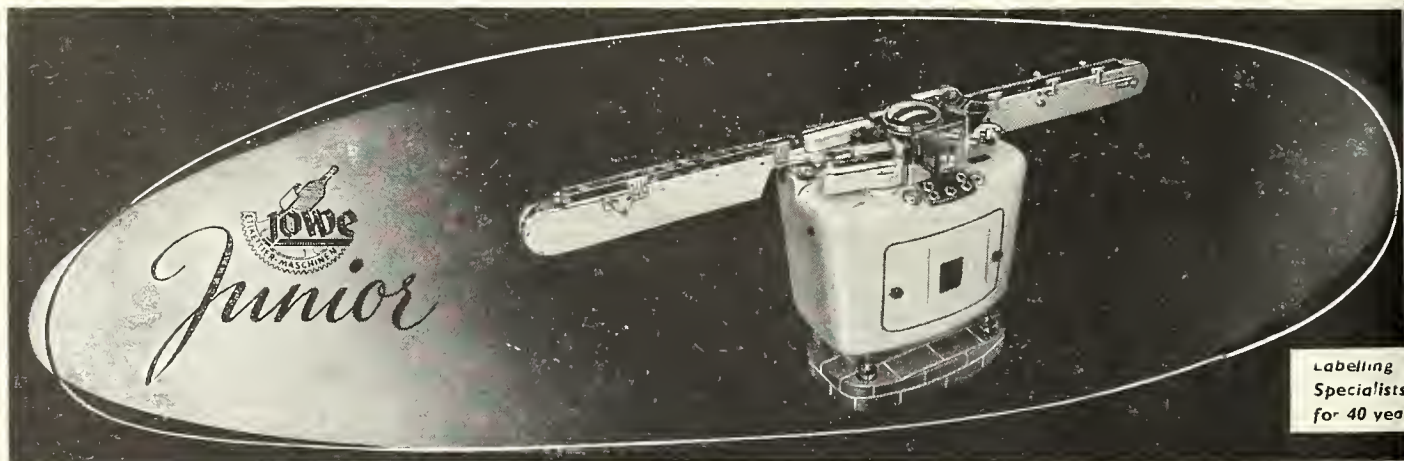
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★ Labels containers of 15 to 70 mm. in diameter ★ Capacity 2000-7200 per hour, infinitely variable ★ Unlubricated bearings, require little attention ★ Dating device. Bottle counter. Speedometer



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Now in a new improved pack!

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GENERAL PURPOSE
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WITH OTHER FIBRES

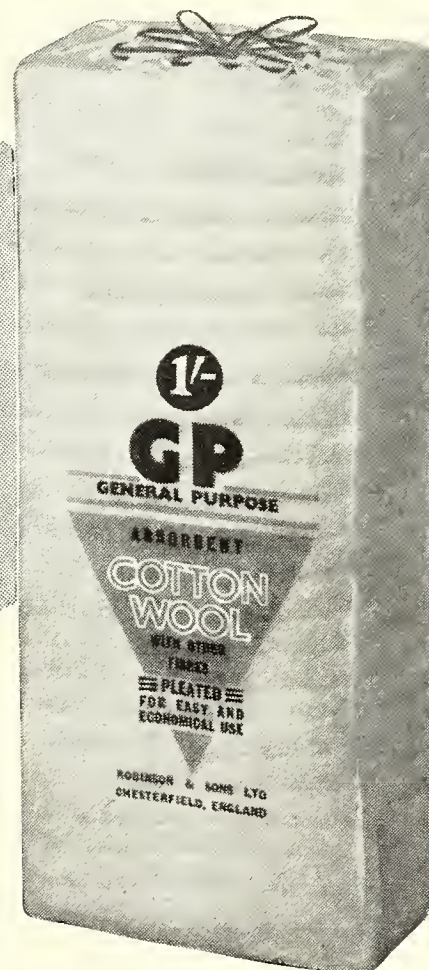
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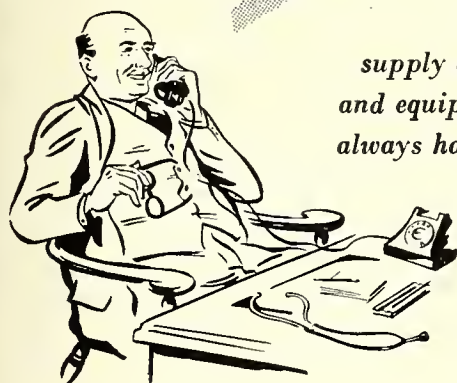
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**balanced control
in the hypertensive
patient**

SOUND BASIC THERAPY This new and unique combination of reserpine and bendrofluazide provides a smooth and sustained hypotensive effect. In severe cases, Abicol Tablets also potentiate the effects of ganglion-blocking agents, enabling lower doses to be used.

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Each tablet contains 0.15 mg. of reserpine and 2.5 mg. of bendrofluazide. Available in packs of 100 and 500 tablets.

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ZIM Dental Balm ZIM Pastilles

Two excellent preparations for the relief of infections of the mouth. Particularly indicated in the treatment of discomfort caused to tender gums when wearing new dentures or when old dentures have made the gums sore.

*Attractive packs and showouters
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The original American beverage, imported. Aromatic and light-hearted. Made from bran, wheat, molasses.

**INSTANT
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100%
coffee-free

for the over-nerved

Retail Price
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National advertising supports your recommending it for a few weeks' trial—to your customers' blessing and your success.



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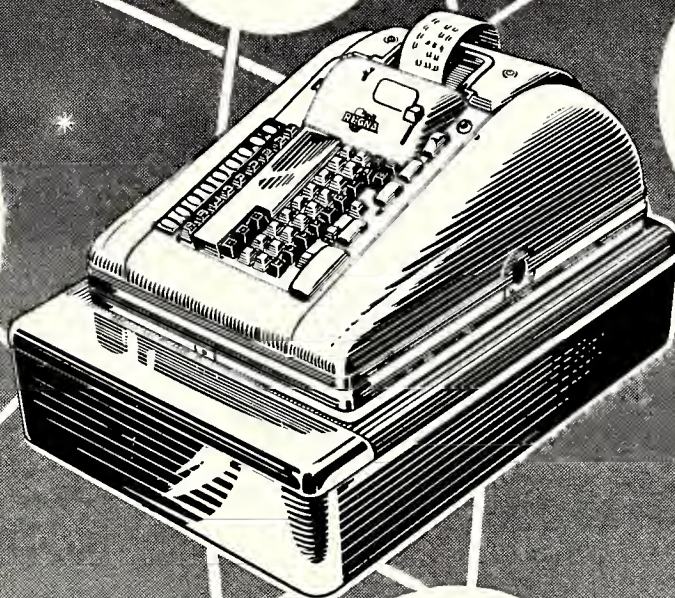
THE CASH
REGISTER
THAT PAYS
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SPEED
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OF 11
MODELS

ULTRA-
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STREAMLINE
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On-the-spot service by factory-trained skilled engineers.

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Please rush without obligation, illustrated multi-coloured leaflet together with full details of a REGNA for my business.

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NOW OFF PRESCRIPTION



Travellers' Joy

'Avomine' is best dispensed in
the 10-tablet slide container—
convenient and profitable.

'AVOMINE'

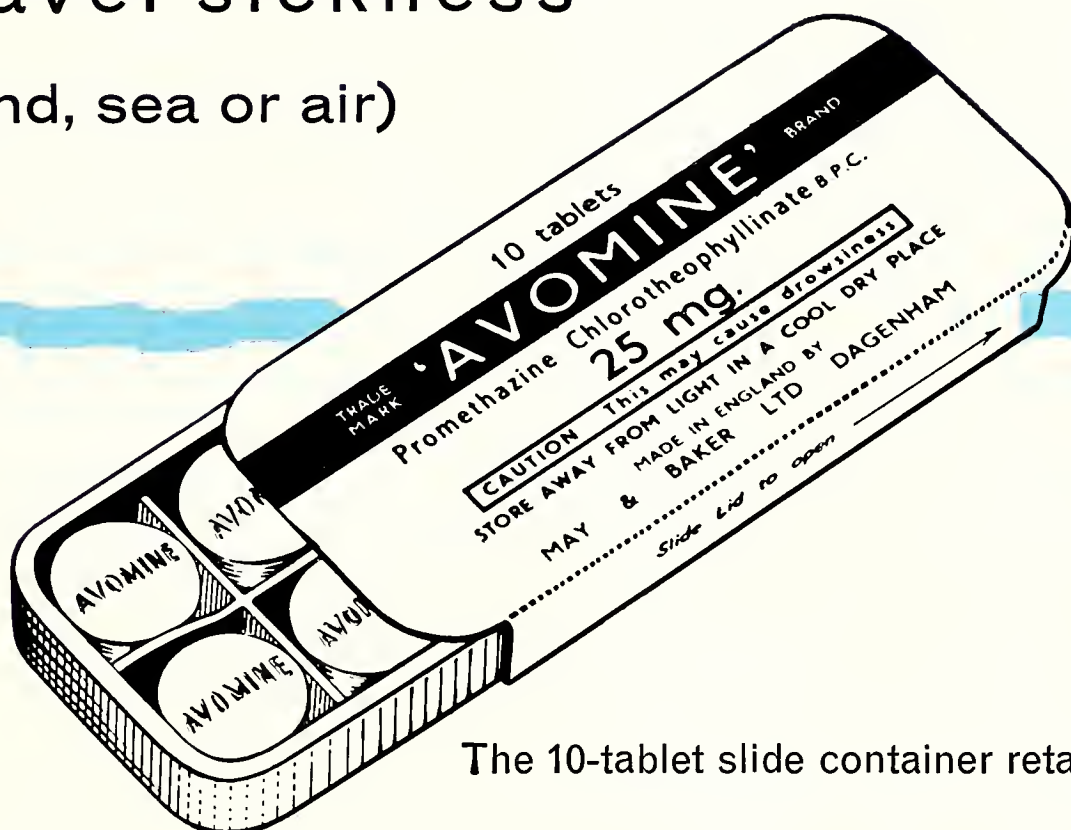
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brand

PROMETHAZINE CHLOROTHEOPHYLLINATE B.P.C.

for preventing and treating
travel sickness

(land, sea or air)



The 10-tablet slide container retails at **2s. 3d.**

An **M&B** brand Medical Product

MANUFACTURED BY
MAY & BAKER LTD



DISTRIBUTORS: PHARMACEUTICAL SPECIALITIES (MAY & BAKER) LTD · DAGENHAM

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EXTRA SALES!**

FOR STOCKISTS OF THE

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**MORE THAN
10 MILLION READERS**

*will see the Pompette advertising
this year!*

Nationally advertised in the Women's Interest
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Sales and **EXTRA PROFITS FOR YOU!**

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Other CROYDEX products include:

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POWDER CREAM

There is always a regular
demand for this beauty prepara-
tion. Persistent National
advertising is increasing its
popularity and creating valu-
able sales which you can share.
Display Velouty Powder Cream
now.



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Overnight
CREAM
FOR BEAUTY IN THE MORNING

During the hours of sleep Dixor
Overnight Cream will work with
nature to repair damage done to the
delicate tissues of the skin during the
daytime and help to restore the skin
to vital radiant health.

TRADE 15 - DOZ.
RETAIL 2 6 EACH.



DIXOR
Limited

ST. LEONARD'S RD
MORTLAKE
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Put all the
MOTHAK range
 on your counter
NOW
 and be sure of
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Now — and all through the summer —

**BIG SPACE
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will sell **MOTHAK** products
 for YOU

Your customers will look for the name

MOTHAKS

—by the experts

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Mothaks (Bag of 8)	1/-
Mothak Fly Killer	only 3/9
Mothak Air Freshener	only 3/9
Mothak Moth Proofer	only 3/9

NEW!

the shavers' best friend

SteriShave

for 100% razor hygiene

SteriShave is a truly outstanding advance in shaving and it is easy to see *why* SteriShave is fast becoming the very best of friends with safety razor users. Not only does it make for quicker, easier shaving but it sterilises the razor, extends blade life and eliminates drying and cleaning—all very simply by keeping the razor immersed in this amazing solution between shaves.

YOUR CUSTOMERS WILL WANT STERISHAVE...

Because SteriShave offers 100% razor hygiene and can be used with *all* types of safety razors.

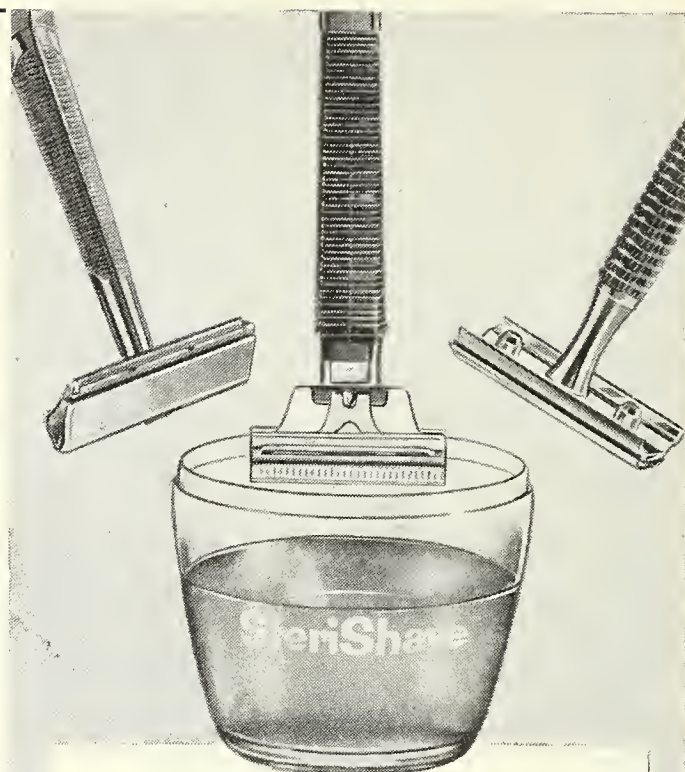
Because SteriShave has special cleansing, disinfectant and anti-corrosion properties, and is active against a wide range of bacteria.

Because SteriShave keeps razor blades at peak sharpness and increases the number of shaves per blade.

Because SteriShave removes all soapy deposits, saves cleaning and drying and keeps a razor at its sparkling best—ensuring a clean shave every day.

Because SteriShave is quick—rinse razor under the tap—shave—another rinse—immerse in the SteriShave razor bath—and there you are!

Take advantage of the National Advertising support and the tremendous **25%** Purchase Tax reduction. Stock SteriShave now!—your best-selling friend



SteriShave comes complete with its own specially-designed razor bath which has a specially-shaped base to prevent blade damage. Sachet refills are also obtainable.

Attractive 6-piece display units with crownners and Sachet-refill display units are available—Show these and you'll show a profit!



STERISHAVE

Trade :
22/- per dozen
P. Tax :
5/6 per dozen
Retail :
3/4 each container

REFILLS

Trade : 18/- per dozen
P. Tax : 4/6 per dozen
Retail : 2/8 each sachet



AN EVER-READY PRODUCT

GEORGE SPENCER & SON LTD.

High Class Toilet Brushes, Toilet Requisites and Chemists' Sundries

SOLE DISTRIBUTORS OF *Beautiful Hair* BRECK PREPARATIONS
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Perfumes

These preparations which already enjoy a reputation second to none will be much in demand by your customers due to our forthcoming intensive promotional campaigns and we shall be very grateful if you will kindly address all your orders and enquiries to:— **GEORGE SPENCER & SONS LTD.**

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where they will receive our immediate attention.

YOUR GLUCODIN AND FAREX



BONUS OFFER



Glucodin and Farex are Glaxo trade marks.

The Glucodin and Farex bonus offer is now well under way. Have you ordered your first bonus parcels? Is it time to repeat the order? During the offer, the profit margins on Glucodin and Farex are 42% and 35% respectively. This makes it well worth your while to send in several orders before the offer closes on June 10th. Put bold displays in your windows, your baby departments and on your counters, using the special show material, some of which is illustrated.



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STANDARD STEROIDS

to meet prescriptions

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(‘Deltacortone’ Brand)

PREDNISON BUFFERED TABLETS

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CORTISONE ACETATE PRODUCTS

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(‘Hydrocortone’ Brand)

Steroid order forms detail full MSD range—supplied on request



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Hoddesdon, Herts

*oil**petroleum**nickel**and dish-wash***DERMATOSES*****need that thorough · simple · non-touch technique*****Cortril^{*} Spray**a steroid of hydrocortisone

After a few days' treatment, lesions become flat and pale with subsidence of oedema, pruritus and infiltration. Neither stings, burns, nor irritates. No need to touch tender fragile skin. Non-tacky.

Presentation: 2 fl. oz. 1 fl. oz. pack**SCIENCE FOR THE WORLD'S WELL-BEING**

Pfizer Ltd · Sandwich · Kent

*Trade Mark

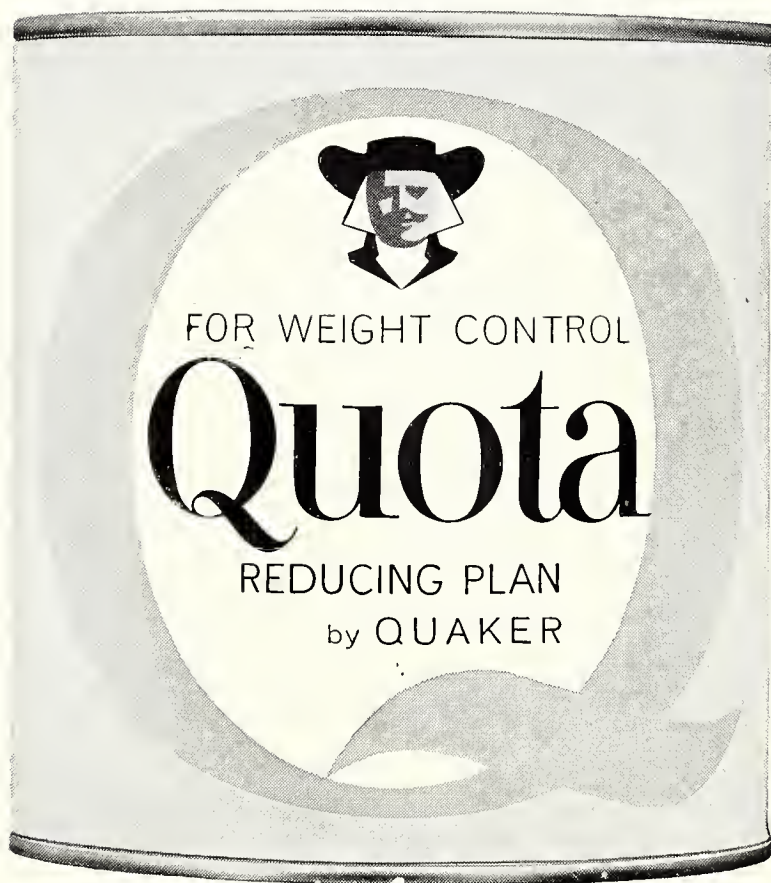
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INTRODUCING NEW

Quota

BY QUAKER

ONLY SLIMMING FOOD WITH ALL THESE ADVANTAGES



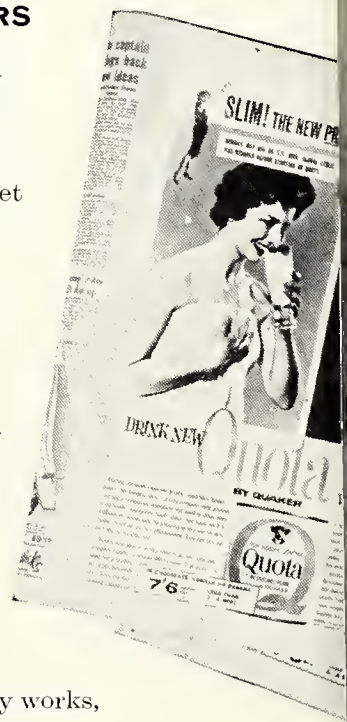
FOR YOUR CUSTOMERS

● **LOWER COST!** QUOTA costs 7/6 per 8 oz. tin—one day's complete supply. At a price competitive with any comparable slimming product—less than 2/- per meal!

● **A GENUINE FOOD—**backed by over 60 years' nutritional experience of Quaker Oats Limited. This reassures your customers that QUOTA really is a *food*—a *natural* way to slim up to 5 lb. a week, without drugs, bulking agents . . . or hunger!

● **PROVED EFFECTIVE**—before millions of people. Read about the unique TV test that proved QUOTA really works, on the opposite page.

... **AND FOR YOU, A HIGHER PROFIT MARGIN!**
A substantial percentage on every tin you sell plus introductory bonus profits!



LIMITED TO LONDON TV AREA

Stock up with new Quota—**PLANNED** to s

BY QUAKER

CUMULATIVE LIST OF AMENDMENTS TO THE C.&D.
Quarterly Price List

MARCH I

2-Minute Magic (385 DG)	59	0	29	6	9	9	
A.A. (211 Butler)							
ointment ..	14	6	3	7½	2	3	
Abdine (821 McGlashan)							
powders single ..	32	0	8	0		4½	
		gross		gross			
Abunda (385 DG)							
cream ..	45	0	22	6	7	6	
Achromycin (746 Lederle)							
capsules 50 mgm ..	25	9	6ea		14	3	TS
	100	35	8ea		53	6	TS
250 mgm ..	16	25	6ea		38	3	TS
	100	153	4ea		230	0	TS
	1000	1480	6ea		2220	9	TS
for ear solution							
powder vial 50 mgm }	6	0ea			9	0	TS
diluent vial 10 mils }							
for oral suspension 1.5 gm							
1 oz	9	6ea			14	3	TS
intramuscular vial 100 mgm	4	6ea			6	9	TS
intravenous vial 100 mgm	4	2ea			6	3	TS
250 mgm	8	6ea			12	9	TS
500 mgm	15	4ea			23	0	TS
ointment 3% ..	½ oz	4	0ea		6	0	TS
	1 oz	7	2ea		10	9	TS
ophthalmic ointment 1% 6	6	0ea			9	0	TS
powder sterilised .. vial	4	10ea			7	3	TS
oil suspension 1% 6 mils	1	8ea			2	6	TS
pediatric drops 10 mils	6	6ea			9	9	TS
soluble tablets ..	100	35	8ea		53	6	TS
syrup ..	2 oz	9	6ea		14	3	TS
	16 oz	68	8ea		103	0	TS
tablets 50 mgm ..	25	9	6ea		14	3	TS
	100	35	8ea		53	6	TS
250 mgm ..	16	25	6ea		38	3	TS
	100	153	4ea		230	0	TS
	1000	1480	6ea		2220	9	TS
troches 15 mgm ..	25	3	8ea		5	6	TS
Achromycin V (746 Lederle)							
capsules 50 mgm ..	25	9	6ea		14	3	TS
	100	35	8ea		53	6	TS
250 mgm ..	16	25	6ea		38	3	TS
	100	153	4ea		230	0	TS
	1000	1480	6ea		2220	9	TS
pediatric drops 10 mils	6	6ea			9	9	TS
syrup ..	2 oz	9	6ea		14	3	TS
	16 oz	68	8ea		103	0	TS
Adelphane (262 CIBA)							
tablets ..	25						
Adreson (917 Organon)							
eye drops 1% ..	3	mil					
tablets 5 mgm ..	40						
25 mgm ..	20, 40						
Adroyd (938 PD)							
tablets ..	30	22	8ea		34	0	TS
	100	70	0ea		105	0	TS
	250	170	0ea		255	0	TS
Adwin (266 Clarnel)							
paediatric ..	4 oz	30	0		3	9	
	dp 16 oz	108	0				
tablets ..	100	80	0				
	dp 500	27	0ea				
Aero-Medic (261 Christy)							
Aero-Ped (261 Christy)							
Aero-Ped (657 IL)							
Agfalux (16 Agfa)							
flash gun ..	6874				79	11	
ivory de luxe ..	6874/100						
Airwick (23 Airwick)							
de luxe bottle		62	3		6	11	
aerosol mist large		62	3		6	11	
fly killer large							
Albion (339 CG)							
cotton wool ..	1 oz	5	5				
	2 oz	8	8				
	4 oz	14	7				
	8 oz	25	5				
	16 oz	3	10½ea				
Aludrox (1352 Wyeth)							
tablets compound ..	560	306	9		34	1	
Ambiflex (16 Agfa)							
I camera ..	3100				1490	4	
II camera ..	3105				1783	3	
III camera ..	3106				2140	9	
E.R. cases ..	6012				94	2	

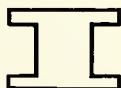
Ambinon A (917 Organon) 1 mil 3 & 25							
Ambinon B (917 Organon) 1 mil 3 & 25							
Ambi Silette (16 Agfa) camera with f2.8/50 mm Color—							
Solar lens ..	2091				1065	2	
E.R. case ..	6014				79	11	
Ambramycin (70 Aspro)							
capsules 250 mgm ..	16	25	6ea				TS
	60	92	0ea				TS
	250	372	6ea				TS
suspension 2.5% 60 mils	9	6ea					TS
Amphedrex (195 Brook Parker) tablets 25							
Amphetamine (1348 JW)							
20 oz	9	3ea					
40 oz	16	6ea					
80 oz	30	1ea					
Amylozine (1152 SK)							
Spansules ..	30	150	0		18	9	TS
	250	99	0ea		148	6	TS
Andre Philippe (48 AP)							
eyebrow pencil ..	6	4	6	2	3	9	
reconditioning cream dispenser ..	17						
spray lacquer aerosol ..	29	0	14	6	4	9	
Anestan (690 Keldon)							
Angel Face (256 CPL)							
compact refill ..	17	4	S	S	2	9	
Antrenyl (262 CIBA)							
syrup 100 mils							
A-Pek (328 CCC)	25	mil	204	0		25	6
Apresoline (262 CIBA)							
tablets 25 mgm ..	25						
50 mgm ..	25						
Aqua Velva (1113 S&B)							
after-shave lotion ..	17	1	8	6½	2	8	
	27	11	13	11½	4	4	
	21	9	10	10½	3	4	
ice blue ..	37	3	18	7½	5	9	

THIS WEEK'S CHANGES
AT END OF LIST

Archanium (974 PC)	1½ oz	26	0	6	6	3	9½
	2½ oz	40	0	10	0	5	10
	8 oz	92	0	23	0	13	5
Arriad (1003 PP)							
deodorant lotion refill							
deodorant super spray	19	9	4	11½	2	9	
deodorant super spray	37	S	9	5	5	0	
Arthrepsin (719 LAP)							
tablets ..	50	68	0		8	6	
	1000	1332	0		166	6	
Arthropax (894 Nicholas)							
cream ..	4	oz					
tablets ..	64						
Artra (1330 WL)							
skin tone cream ..	2 oz	60	0	30	0	10	0
Arvin (438 ER)							
electric razor D.S.15 ..	36	6ea	9	2ea	57	9	
Ascon (37 Allied)							
suspension ..	dp 80 oz	23	8ea			TS	7
tablets ..	dp 250	9	0ea			TS	7
Ashes of Roses (150 Bourjois)							
perfume miniature ..	41	20	0	10	0	3	6
Ashes of Violets (150 Bourjois)							
perfume miniature ..	5011	20	0	10	0	3	6
Asinac (1303 Wander)							
tablets ..	50	54	0		6	0	TS
	250	213	0		23	8	TS
Asmaval (378 DCBL)							
tablets ..	500	28	4ea		42	6	pl
Aspellin (1023 Radiol)							
aspirin liniment ..	dp 16 oz	132	0		16	6	
	dp 80 oz	600	0		75	0	
Astrafer I.V. (68 AH)							
ampoules 5 mils ..	5	102	0		12	9	
	25	36	6ea		54	9	

'SAXIN'
TRADE MARK

advertising on all



Stations

REACHES 36,000,000 VIEWERS RIGHT THROUGH THE SUMMER SEASON. MAKE SURE YOU HAVE STOCKS TO MEET THEIR INCREASING DEMAND.



Burroughs Wellcome & Co. (The Wellcome Foundation Ltd) London

Atkinsons (76 Atkinson)									
men's range									
after shave lotion ..6540	57	4	27	11	9	6			
crystal after shave ..6534	52	10	25	9	8	9			
pre-electric shave ..6542	58	10	28	8	9	9			
shaving bowl ..6537	65	4	15	11	9	6			
refill ..6538	32	8	8	0	4	9			
cream lather ..6530	37	10	9	3	5	6			
brushless ..6532	37	10	9	3	5	6			
Aureomycin (746 Lederie)									
capsules 50 mgm .. 25	9	6ea			14	3	TS		
	100	35	8ea		53	6	TS		
250 mgm .. 16	25	6ea			38	3	TS		
	100	153	4ea		230	0	TS		
	1000	1480	6ea		2220	9	TS		
ear solution 50 mgm vial	6	0ea			9	0	TS		
ointment 3% .. 1/2 oz	4	0ea			6	0	TS		
	1 oz	7	2ea		10	9	TS		
ophthalmic 1% 6 x 1/2 oz	6	0ea			9	0	TS		
sterilised vial .. 4 10ea					7	3	TS		
soluble tablets 50 mgm 100	35	8ea			53	6	TS		
syrup .. 4 oz	19	0ea			28	6	TS		
	16 oz	68	8ea		103	0	TS		
troches .. 25	3	8ea			5	6	TS		
Autoflash (18 Agilux)									
super 44 camera ..	120	4ea	29	5ea	210	0			
Avlosulfon (649 ICI)									
tablets 0.05 gm ..1000	117	0			14	7 1/2			
Ayrton (78 AS&Co)									
fairyspun leg tan ..	14	0	7	0	2	9			
Balto (727 Lane)									
foot balm .. 1 1/2 oz	19	7	4	11	2	9			
Delete Barbett (1113 S&B) razor blades									
Delete Barbett (430 Eueryl)									
drip dry razor blades .. (5)	16	0	4	0	2	3			
Barbeville (134S JW) 20 oz	12	10ea					1s1s4A		
80 oz	44	9ea					1s1s4A		
Barboestryl (1087 Roussel)									
tablets .. 25	24	0			3	0	1s1s4A		
	100	54	0		6	9	1s1s4A		
Basque (682 KCL)									
sun tan cream ..	33	0	16	1	5	6			
	53	0	25	10	8	9			
Bath gems (331 C of C)									
minor ..	19	3	9	4	3	3			
with bow ..	33	0	16	1	5	6			
Delete Baxen (894 Nicholas)									
powders single									
welfare									
tablets welfare									
Delete Bell & Howell (1027 RPI)									
16 mm cine cameras									
Autoload Sunomatic									
with f/1.9									
Sunomatic lens					1597	1			
with f/1.4 Ivtotai									
lens					1876	1			
Autoload Turret									
with f/1.9 Serital lens					1843	9			
with f/1.4 Ivtotai lens					2122	9			
Bellmont projector									
stand					497	6			
Beplete (1352 Wyeth)									
elixir .. 4 oz	42	9			4	9	1s1s4A		
40 oz	291	0			32	4	1s1s4A		
tablets .. 50	34	0			3	10	1s1s4A		
Beplex (1352 Wyeth)									
elixir .. 40 oz	268	0			29	10			
Besorbon (691 Kemsales)									
snuff ..	12	6	3	1 1/2	1	8			
Delete Bifaction (917 Organon) tablets 30									
Delete Bikini (78 AS&Co)									
summertan spray ..	40	0	20	0	6	9			
Delete Biligratin (1107 SAGB)									
ampoule 20 mils 30% .. 1									
50% .. 1									
Delete Billorat (8 Actina)									
tripod Stablio gray 1125/3	68	8ea	16	9ea	119	9			
Delete Biotege (972 Pharmax)									
detergent .. 2 kilo	28	0ea							
Delete Blakeys (136 BF)									
malted oatmeal .. 8 oz	12	9			1	4			
16 oz	25	6			2	8			
Delete Bob Martin (143 BM)									
show ring shampoo ..	19	1	4	9 1/2	2	6			
Delete Boldoot (639 HH)									
towelette .. 5	15	0	7	6	2	6			
Delete Bourjois (150 Bourjois)									
soap eggs (6) ..9158	6	0	1	6	10				
soap egg mammoth ..9163	25	4	6	4	3	6			
lemon ..9257	90	0	22	6	1	0			
		gross		gross					
oblong toilet ..9256	36	0	9	0	4 1/2				
		gross		gross					
Delete posy bowl .. C135									
Delete casket .. C157									
Breck (1169 GS&S)									
shampoo sachet ..	7	0	1	9	1	0			
Bright Future (631 Hudnut)									
hair lightener ..	48	3	24	1 1/2	7	6			
Bright Mist (385 DG)									
hair set aerosol ..	72	0	36	0	12	0			
Bronchipax (70 Aspro)									
tablets .. 6	46	0 (3 doz)			1	10			
	24	41	7			5	0		
	48	74	4			8	10		
	72	96	8			11	6		
Bronnley (194 Bronnley)									
pine bath cubes (6) 2022/6	19	0	9	3	3	3			
essence 10oz .. 902	56	9	27	8	9	6			
turtle oil bath soap 604/B	15	0	3	7	2	2			
Bropin (195 Brook Parker)									
tablets .. 250	5	0ea							
Delete 20, 50, 100, 3 x 100									
Delete Brovon (859 Moore)									
pressurised refill ..	121	9			14	6 pl			
Delete Brunlax (1113 S&B)									
shampoo powder ..	4	5	1	1 1/2	7 1/2				
liquid ..	11	0	2	9	1	6 1/2			
sachet ..	4	7	1	1 1/2	7 1/2				
Delete Caleno (484 Fulford) all sizes									
Delete Carbantren (262 CIBA) tablets 20									
Delete Casino (234 Cartwright)									
super tan ..	30	0	15	0	5	0			
	16	0	4	0	2	3			
Celabs (727 Lane)									
	95	31	0	7	9	4	4		
	180	51	10	13	0	7	3		
	480	121	6	30	6	17	0		
Certor (786 MacDonald)									
bandage W.O.W. 2 in x 4 yd	4	8							
2 1/2 in x 4 yd	5	8							
3 in x 4 yd	6	7							
4 in x 6 yd	12	4							
6 in x 6 yd	18	2							
cotton wool, absorbent 1 1/2 oz	5	0							
1 oz	6	10							
2 oz	11	6							
4 oz	20	2							
8 oz	36	8							
16 oz	68	9							
gauze, plain 1/2 yd	3	7							
1 yd	5	4							
3 yd	21	6							
6 yd	39	10							
12 yd	77	10							
lint boric 1/2 oz	6	8							
1 oz	10	3							
2 oz	18	5							
4 oz	33	11							
8 oz	64	2							
16 oz	123	9							
lint plain 1/2 oz	6	5							
1 oz	9	8							
2 oz	17	2							
4 oz	31	7							
8 oz	59	5							
16 oz	114	6							
Cestra (1073 Robinson)									
face mask ..	123	8			13	9			
	gross				doz				
Charabs (727 Lane)									
	36	16	0	4	0	2	3		
	95	31	0	7	9	4	4		
	180	51	10	13	0	7	3		
	480	121	6	30	6	17	0		
Choloxin (95 Baxter)									
tablets .. 50	23	4ea	5	10ea					
Christmas in July (150 Bourjois)									
bath cubes (6) ..9404	27	2	13	7	4	9			
perfume presentation 9401	120	0	60	0	21	0			
Delete Cibalgin (262 CIBA)									
suppositories									
tablets 1000									
Delete Cibazol (262 CIBA)									
tablets 100 & 500									
Delete Citrotyl (938 PD) all sizes									
Citrotyl (938 PD)									
suspension .. 4 oz	34	0	8	6	4	11 1/2			
80 oz	36	0ea	9	0ea	63	0			
Delete Clack (16 Agfa) camera ..									
case ..					21	6			
Delete Clibo (16 Agfa)									
flash gun ..6864					37	6			
Delete Climamask (1313 WED)									
3ea	71				95	0			
Delete Colgate (280 CP)									
dental cream ..	21	6	5	4	2	10			
chlorophyll tooth paste									
large ..	22	2	5	6	2	11			
Colistol (32S CCC) 12 oz.	120	0	30	0	17	6			
Delete Collo-Cal-D (324 Crookes)									
bottle .. 16 oz	110	0			13	9			
20 oz									

Collosol (324 Crookes) iodine 16 oz 60 0 15 0 8 9 20 oz	Delete	vial 5 mls 10 mgm/2 mls 25 70 0ea .. 105 0 pls4B
Color Bright (385 DG) shampoo 51 0 25 6 8 6	Delete	dipropionate 5 mgm/ml 5 mls ointment 18 gm 15 0ea .. 22 6 pls4B
Color High (385 DG) rinse 70 0 35 0 11 9	Delete	Distafeed (378 DCBL) penicillin supplement 10 lb 11 3ea .. 15 0 TS 50 lb 46 10½ea .. 62 6 TS
Colorific (631 Hudnut) colour rinse 23 6 11 9 3 11		riboflavin supplement No. 1 1 lb 2 0ea .. 2 8 10 lb 16 3ea .. 21 8 50 lb 62 6ea .. 83 4
Color-Match (525 Golden) viewer 33 0 16 6 5 6		No. 2 1 lb 1 3ea .. 1 8
Colorvue (673 J of H) viewer 29 6		vitamin B.12 supplement 1 lb 3 4½ea .. 4 6 10 lb 26 3ea .. 35 0 50 lb 121 10½ea .. 162 6
Compactoid (339 CG) first aid outfit .. A162 36 0 .. 4 0 A161 51 0 .. 5 9 A160 74 0 .. 8 3 A159 140 0 .. 15 6 A158 252 0 .. 28 0		Distivit (378 DCBL) B.12 ampoules 5 mls 1 11ea .. 2 10½ 100 mcgm/ml 5 mls 5 8ea .. 8 6
Conovid (1121 Searle) tablets 5 mgm .. 20 11 4ea .. 17 0 †s4B		Distivit 1000 (378 DCBL) tablets .. 50 55 0ea .. 82 6
Coramine (262 CIBA) ampoules 1-7 mls all sizes		Distolyt (378 DCBL) tablets .. 24 3 0ea 9ea 5 3 pls7 100 9 0ea 2 3ea 15 9 pls7
Cortisone (759 L&B) acetate tablets 5 mgm .. 100 14 2ea .. 21 4 TS 500 71 1ea .. 106 9 TS 25 mgm .. 100 53 4ea .. 80 0 TS 500 266 8ea .. 400 0 TS		DOCA (917 Organon) ampoules 2 mgm/ml 25 15 6ea .. 23 3 pl 5 mgm/ml 25 21 2ea .. 31 9 pl 10 mgm/ml 25 41 8ea .. 62 6 pl
Cosette (300 Cosette) brief rayon .. 46 0 .. 6 9 nylon .. 59 0 .. 8 9	Delete	
Coxidan (328 CCC) tablets 1 lb 188 0 47 0 27 5	Delete	
Cravens (316 Craven) Blix licorice pastilles	Delete	
Creminka (120 BGP) all-purpose cream .. 18 0ea 9 0ea 42 0		Donnazyme (1071 Robins) tablets .. 50 144 0 36 0 21 0 †s1s4A 500 1200 0 300 0 175 0 †s1s4A
Cristolox (1303 Wander) all sizes		Dorothy Gray (385 DG) cleansing cream liquefy- ing .. 2 oz 39 0 19 6 6 6 4 oz 57 0 28 6 9 6 8 oz 99 0 49 6 16 6
C.T.A. (1091 Rybar) .. 1 oz 17 0 4 6 2 6		cream rouge .. 45 0 22 6 7 6 dry skin cleanser .. 4 oz 69 0 34 6 11 6 extra rich night cream 1 oz 45 0 22 6 7 6 eye-emollient cream .. 30 0 15 0 5 0 hand cream tube .. 33 0 16 6 5 6 2 oz 42 0 21 0 7 0
Cuckoo (453 Fecher)		orange flower skin lotion .. 4 oz 45 0 22 6 7 6 10 oz 93 0 46 6 15 6
Cussons (338 Cussons) Imperial Leather bath soap magnum 23 0 5 7½ 3 0		roll-on deodorant and antiperspirant .. 45 0 22 6 7 6 salon cold cream .. 4 oz 69 0 34 6 11 6 8 oz 108 0 54 0 18 0
luxury soaps "Four Diamonds" ..2084 19 0 4 7½ 2 6		sensitive skin cream .. 1 oz 45 0 22 6 7 6 stay-matt .. 45 0 22 6 7 6 texture lotion .. 10 oz 98 0 49 0 16 3
"Hungarian Rhapsody" 2160 23 0 5 7½ 3 0		Dramamine (1121 Searle) tablets 50 mgm .. 6 18 0 .. 2 3 †s7
"Rhapsody in Black" 2164 23 0 5 7½ 3 0		Dreamland (403 EA) electric blankets 60 x 30 in single heat NS1/2 60 5ea 14 9ea 99 6 60 x 48 in single heat ND1/2 89 3ea 21 9ea 147 0 60 x 30 three heat 3FS1/2 81 4ea 19 10ea 134 0 60 x 48 three heat 3FD1/2 117 6ea 28 9ea 194 0
"Rhapsody in Blue" 2162 23 0 5 7½ 3 0	Delete	Droaxalin (976 PS&T) gel 3 oz and 80 oz
Dalmis (347 Dalmis) elastic first aid dressings	Delete	Duactin (917 Organon) tablets 250
cabinets .. No. 1 8 0ea .. 11 3 No. 2 8 0ea .. 11 3 No. 3 7 3ea .. 10 0 refills 6 3ea .. 8 9 surgery cabinet No. 135 9 3ea .. 13 0		Duo-Gestan (1259 Unichem) lozenges .. 13 4 3 5 2 0 powder .. 20 0 4 11 2 11 30 0 7 3 4 4
waterproof strip dressings 1½ in x 1 yd 20 0 .. 2 4 2 in x 1 yd 24 3 .. 2 10 2½ in x 1 yd 27 9 .. 3 3 3 in x 1 yd 32 3 .. 3 9		Duo-Gestan Livertone (1259 Unichem) tablets .. 25 12 0 2 11 1 9 † 100 33 9 8 3 4 11 †
elastic strip dressing 1½ in x 1 yd .. 20 0 .. 2 4 2 in x 1 yd .. 24 3 .. 2 10 2½ in x 1 yd .. 27 9 .. 3 3 3 in x 1 yd .. 32 3 .. 3 9		Ecolid (262 CIBA) ampoules 5 mgm .. 6 tablets 25 mgm .. 25 50 mgm .. 25
Danistol (328 CCC) capsules cattle .. 4 80 0 20 0 11 8 sheep .. 25 180 0 45 0 26 3	Delete	E.D.P. (436 Evans) small .. 17 0 4 3 2 6
Dantyl (747 Leo) cachets .. 30 23 0ea .. 100 75 0ea ..	Delete	Elastoplast (1155 S&N) quick pack .. 17 3 .. 2 0
Decaserpyl (1087 Roussel) tablets 5 mgm .. 20 92 0 .. 11 6 †s4B 100 456 0 .. 57 0 †s4B 500 188 0ea .. 282 0 †s4B 10 mgm 20 168 0 .. 21 0 †s4B 100 840 0 .. 105 0 †s4B 500 348 0ea .. 522 0 †s4B	Delete	Elation (385 DG) dusting powder .. tin 42 0 21 0 7 0 drum 88 0 44 0 14 9
Depinar (61 APC) vial 2 mls .. 1000 mcgm 124 0 .. 15 6 5 mls .. 2500 mcgm 240 0 .. 30 0		film make-up .. 45 0 22 6 7 6 skin perfume .. 1 oz 30 0 15 0 5 0 2 oz 75 0 37 6 12 6 4 oz 105 0 52 6 17 6
Depo-Medrone (1263 Upjohn) 40 mgm/ml 1 mil 21 0ea .. TS		Electricque (813 MF) Cologne .. 2 oz 47 4 23 8 7 9 4 oz 76 0 38 0 12 6 perfume .. phial 45 4 22 8 7 6 1 oz 318 8 159 0 52 6
Derbac (1070 Windsor) medicated shampoo .. 15 11 3 11½ 2 3		Elsan (418 EM) sanitary fluid blue 1 gall 126 0 .. 14 0 super 1 gall 144 0 .. 16 0
Dial (262 CIBA) tablets all sizes		Elsanol (418 EM) 1 gall 81 0 .. 9 0
Di-Adreson (917 Organon) tablets 1 mgm 30		
Di-Adreson-F (917 Organon) tablets 1 mgm 30		
Diandrone (917 Organon) tablets 2-5 mgm 500		
Dibexin (938 PD) capsules packs of 25		
Dicoumarin (917 Organon) tablets 50 mgm 25 & 500		
Didial (262 CIBA) tablets all sizes		
Dimenformon (917 Organon) ampoules 1 mgm/ml 25 15 6ea .. 23 3 pls4B vial 5 mls 6 5 mgm/ml 25 35 4ea .. 53 0 pls4B 6		

MEGGEZONES
FOR COUGHS, COLDS AND CATARRH

dex PASTILETS
THE MODERN COUGH TREATMENT

MEGGESON
DYSPEPSIA TABLETS

THE BRAND LEADERS IN THEIR FIELDS

MEGGESON & CO. LTD., LONDON S.E.16

	Embazin (971 PSMB)	.. 2oz	30	0	..	..	3	9	plsl
		10oz	112	0	..	..	14	0	plsl
		20oz	208	0	..	..	26	0	plsl
		80oz	800	0	..	..	100	0	plsl
	Emeside (718 LAB)								
	capsules 250 mgm	.. 100	27	9ea	..	..	37	0	
Delete	Emmotone (571 Staggs)	8 oz							
	Emplets (938 PD)								
Delete	thyroid ovarian packs of 500								
	Enavid (1121 Searle)								
	tablets 5 mgm	.. 20	11	4ea	..	..	17	0	ts4B
		50	25	8ea	..	..	38	6	ts4B
		250	118	4ea	..	..	177	6	ts4B
	10 mgm	.. 20	22	8ea	..	..	34	0	ts4B
		50	51	4ea	..	..	77	0	ts4B
		250	236	8ea	..	..	355	0	ts4B
	Endografin (1107 SAGI)								
Delete	ampoule 10 mils	.. 1							
Delete	70% viscous	.. 1							
	Enduron (2 Abbott)								
	tablets 2.5 mgm	.. 25	45	0	..	..	5	7½	
		100	174	0	..	..	21	9	
	5 mgm	.. 25	81	0	..	..	10	1½	
		100	288	0	..	..	36	0	
Delete	Enpac (769 Lloyd-Hamoll)								
	Enpac (1340 WUD)	60 gm	96	0	24	0	14	0	
	Ephazone (690 Keldon)								
	tablets ..	.. 48	78	0	..	..	8	8	
		100	144	0	..	..	16	0	
		250	342	0	..	..	38	0	
Delete	12, 24, 500 and 1000								
	Erytex (211 Butler)								
	ointment ..	..	13	6	3	4½	2	0	
	Eskornade (1153 SKF)								
	Spansule ..	.. 30	128	0	..	..	16	0	ts7
	Esquire (1113 S&B)								
	brushless shave ..	..	18	4	4	7	2	5	
	Ethobral (1352 Wyeth)								
	tablets ..	.. 250	200	0	..	..	22	3	ts1s4A
	Eticyclin (262 CIBA)								
Delete	Linguets 0.01 mgm 500 & 1000								
Delete	0.05 mgm 500 & 1000								
Delete	1 mgm all sizes								
	Evening in Paris (150 Bourjois)								
	hair cream ..	..9044	21	6	10	9	3	9	
	hair spray ..	..9220	54	4	27	2	9	6	
	hand cream ..	..9198	25	8	12	10	4	6	
	liquid brilliantine ..	..9102	21	6	10	9	3	9	
	perfume ..	..2902	21	6	10	9	3	9	
	soap toilet (3) ..	..9218	31	0	7	9	4	6	
Delete	soap toilet ..	..9033							
	spray mist ..	..3222	77	0	38	6	13	6	
	talcum ..	..6378	21	6	10	9	3	9	
	vanishing cream ..	..6270	15	9	7	10½	2	9	
Delete	Evipan (97 Bayer) tablets	50							
	Evramycin (1352 Wyeth)								
	capsules ..	.. 12	306	0	..	..	34	0	TS
		100	204	0ea	..	..	272	0	TS
	suspension 60 mils	..	193	10	..	..	21	7	TS
	Exovax (208 BW)								
	vaccine for mink 12.5 cc	..	139	6	..	..	15	6	VPO
	Falapen (394 DF)								
	tablets ..	.. 10	90	0	..	..	11	3	TS
	Farleys (448 Farleys)								
	gluten-free biscuits ..	8 oz	22	0	..	..	2	3	
	Febamine (147 Boots)								
	tablets ..	.. 30	28	0	..	..	3	6	
		250	16	8ea	..	..	25	0	
	Felicette (980 Photopia)								
	camera ..	..	..	..	..	..	195	0	
	case ..	..	..	..	..	..	23	10	
	Femandren (262 CIBA)								
Delete	Linguets all sizes								
	Ferrodex (195 Brook Parker)								
	iron tonic 4 oz	..	28	0	..	..	
	8 oz	..	46	0	..	..	
	Flypel (649 ICI)								
	tube ..	..	21	0	5	3	2	11	
	Folic acid (413 Lilly)								
	tablets 5 mgm	.. 100	32	0	..	..	4	0	
Delete	Folvite (746 Lederle)elixir	4 oz							
	Forhans (451 F&J)								
	toothpaste ..	..	13	3	3	4	1	10	
		..	19	6	4	10½	2	8	
	Fracas (Piguet (1201 Supervite)								
Delete	perfume ..	.. 4 oz							
	Francolor (637 Hunter) camera								
	with f/2.8 Color Frankar								
	lens ..	..	129	10ea	31	8ea	226	5	
	ever ready case	..	16	5ea	5	8ea	40	4	
	French & Scott (481 F&S)								
	olive oil shampoo sachet	..	8	6	2	1½	1	6	
	treatment pack ..	..	51	0	12	9	7	6	
	Fresh (193 Probat)	8 oz	16	3	..	..	1	9	
	Gala (876 MP)								
	super base ..	..	27	0	13	6	4	6	
	Gallinex (328 CCC)	.. 1 pt	360	0	..	..	45	0	
	4 oz	..	80	0	..	..	10	0	

Delete	Gammexane (649 ICI) insect powder								
	Gamgee (1073 Robinson) tissue								
	blue label BPC	.. 2 oz	7	8½	lb	..	1	3½	
		4 oz	7	1½	lb	..	2	4½	
		8 oz	6	9½	lb	..	4	6	
		16 oz	6	6½	ea	..	8	8	
	pink label NHS No. 3	2 oz	6	1½	lb	..	1	0	
		4 oz	5	6½	lb	..	1	10	
		8 oz	5	2	lb	..	3	6	
		16 oz	4	10½	ea	..	6	6	
	yellow label ..	.. 2 oz	9	4½	lb	..	1	7	
		4 oz	8	9	lb	..	2	11	
		8 oz	8	4½	lb	..	5	7	
		16 oz	8	1½	ea	..	10	10	
	Geeps (1152 SK) ..	..	14	0	3	6	2	0	†
	Gem (365 Demuth)								
	dry shampoo ..	..	18	10	4	8½	2	9	
	Geriden (369 DL)								
	elixir ..	.. 4 oz	72	0	..	..	9	0	
	Gestatin (917 Organon)								
	tablets 5 mgm	.. 500	221	0ea	..	..	331	6	
Delete	Gestyl (917 Organon)								
Delete	ampoules 200 iu 1 mil	6							
Delete	400 iu 1 mil	6							
Delete	500 iu 1 mil	3, 6, & 12							
Delete	1000 iu 1 mil	6							
Delete	3000 iu 1 mil	6							
	Gevral (746 Lederle)								
	capsules ..	.. 30	11	4ea	2	10ea	19	10	
	Gina (97 Bayer)								
	tablets ..	.. 100	102	0	25	6	14	10½	
	Glucagon (413 Lilly)								
	ampoule 1 mgm dry	..	11	8ea	..	..	17	6	
	powder ..	.. 1							
Delete	Go (994 P & M)								
	Poof powder ..	..7750	21	0	10	6	3	6	
	spray perfumed ..	..7752	15	0	7	6	2	6	
	refill ..	..7753	18	0	9	0	3	0	
	stick perfumed ..	..7749							
	Golden Babe (761 Lilia-White)								
	baby pants ..	..	30	0	..	..	3	6	
	large and ex large ..	..	33	6	..	..	3	11	
	napkins ..	.. 12	22	0	..	..	2	4	
		24	44	0	..	..	4	8	
		48	82	0	..	..	8	9	
	Gwilym Evans' (552 GE)								
	Stopain tablets ..	.. 20	13	0	3	3	1	9	
Delete	Halex (560 Halex)								
	chamber anti-splash F550								
	Hanson (822 McEwan)								
	Venus scales ..	..	58	6ea	12	2ea	95	6	
	Hayphryn (97 Bayer)								
	spray ..	..	32	0	..	..	4	0	
	Haze (1037 Reckitt)								
		C	32	7	..	..	3	9	
		B	54	4	..	..	6	3	
	Hematest (843 ML)								
	tablets ..	.. 50	90	0	..	..	11	3	
	Hero (451 F & J)								
	cold relief ..	..	39	9	9	11½	5	3	
	Hexital (922 Ortho)								
	tablets ..	.. 100	88	0	..	..	11	0	†s1s
		500	352	0	..	..	44	0	†s1s
	Honeypot (683 Kay) flycatcher								
	cream non-greasy	..	36	0	gross	..	4		
	Hydrocortisone (759 L & B)								
	1% ..	.. 5 gm	1	9ea	..	..	2	8	TS
		15 gm	3	7ea	..	..	5	4	TS
	1% ..	.. 5 gm	2	10ea	..	..	4	4	TS
		15 gm	5	9ea	..	..	8	8	TS
	2½% ..	.. 5 gm	4	11ea	..	..	7	4	TS
		15 gm	11	7ea	..	..	17	4	TS
	lotion ½% ..	.. 20 mils	4	5ea	..	..	6	8	TS
	1% ..	.. 20 mils	6	11ea	..	..	10	4	TS
	ointment greasy ½% ..	.. 5 gm	1	9ea	..	..	2	8	TS
		15 gm	3	7ea	..	..	5	4	TS
	1% ..	.. 5 gm	2	10ea	..	..	4	4	TS
		15 gm	5	9ea	..	..	8	8	TS
	2½% ..	.. 5 gm	4	11ea	..	..	7	4	TS
		15 gm	11	7ea	..	..	17	4	TS
		50 gm	35	1ea	..	..	52	8	TS
	Hydroderm (837 MSD)								
		5 gm	51	0	..	..	6	4½	TS
		15 gm	126	0	..	..	15	9	TS
	Hypnotique (813 MF)								
	Cologne ..	.. 2 oz	66	8	33	4	11	0	
		4 oz	103	4	51	8	17	0	
	perfume ..	.. phial	57	4	28	8	9	6	
		½ oz	218	8	109	4	36	0	
	Ibcol (671 Jeyes)								
	disinfectant extra	1 gall	12	0ea	..	..	16	6	
		5 gall	52	6ea	..	..	70	0	
	I.C.I. (649 ICI)								
	insect powder 100 gm		13	6	..	..	1	8	
	Ilford (645 Ilford)								
	film HPS ..	.. 127	..	..	..	..	3	5	
		120	..	..	..	..	3	5	
		620	..	..	..	..	3	5	
Delete	Selochromic-pan film 116								

Delete	D.S. yellow lamp, darkroom junior without safelight No. 8	340 0 ..	..	42 6	
Delete	glazer, Ilford Amateur G.L.S. lamp single coil 25w	600 0 ..	..	76 0	
Delete	junior floodlight complete				
Delete	Ilford photoflood unit head and stand ..	1420 0 ..	..	177 6	
	Imposil 200 (114 Bengcr)				
	vial .. 20 mls	200 0 ..	..	25 0	
	50 mls	480 0 ..	..	60 0	
	100 mls	70 0ea	..	105 0	
	Inco-pads (1073 Robinson) 10	60 0 ..	..	6 11	
	Inter-Dens (802 Martindale) new mirror pack ..	19 0	4 9	2 9	
	Inversine (837 MSD) tablets 2.5 mgm .. 100	10 6ea	..	15 9	
	1000	96 0ea	..	144 0	
	10 mgm .. 100	32 0ea	..	48 0	
	1000	300 0ea	..	450 0	
Delete	I-Sedrin (413 Lilly) compound				
Delete	Isi (16 Agfa) flash gun ..	6830	..	39 0	
Delete	Isoly (16 Agfa) O camera ..	1110	..	89 4	
Delete	I camera ..	1100	..	124 5	
Delete	II camera ..	1101	..	164 6	
Delete	III camera ..	1102	..	246 6	
Delete	plastic case ..	6120	..	24 5	
Delete	leather case ..	6121	..	47 1	
	Jaunty (78 AS & Co.) foot spray ..	36 0	9 0	5 9	
	Jeannie (978 PYP) dog shampoo ..	15 0	3 9	2 2	
	26 0	6 6	3 9		
	26 0ea	6 6ea	46 0		
	Jet (1022 Racasan) aerosols .. 5 oz	33 9 ..	..	3 9	
	10 oz	60 9 ..	..	6 9	
	Johnsons (672 Johnson) baby napkins 24 x 24 in	20 6 ..	..	27 6	
	K9 (471 Florhyl) cord .. 300 ft	152 0 ..	..	19 0	
	spray .. 16 oz	168 0 ..	..	21 0	
Delete	Karswood (894 Nicholas) cat powders				
Delete	pig powders 320 & 56 lb				
Delete	worming powders				
Delete	poultry spice 1/2 lb, 28 lb, 56 lb & 112 lb				
Delete	tablets				
	Kasbah (995 Potter's) kidney remedy ..	12 0	3 0	2 0	
	Keeblo (328 CCC) 480 gm	60 0	15 0	8 9	
	3600 gm	360 0	90 0	52 6	
	Kleinerts (706 Kleinerts) baby pants				
	Trainer ..	2194	64 0 ..	7 11	
	Viking swim caps Pompadour ..	3021	383 0	19 2 1/2	49 6
	Kobold (637 Hunter) BC flashgun ..	77 10ea	19 0ea	135 10	
	Z ..	11 10ea	2 11ea	20 9	
Delete	tripod, model 1 ..	97 8ea	23 10ea	170 4	
Delete	model 2 ..	108 10ea	26 6ea	189 9	
Delete	carrying cases ..	28 4ea	6 11ea	49 5	
Delete	cine model IIIB ..	118 4ea	28 10ea	206 4	
	Kodak (711 Kodak) Brownie movie camera				
	model 11 f/1.9 ..	156 6ea	39 2ea	300 0	
	movie turret camera f/1.9	310 5ea	77 7ea	555 1	
	movie camera model 8 f2.7	138 1 1/2	34 6	247 0	
	Retina automatic 11 camera	728 0	182 0	1302 0	
	Kodachrome film 828-8	8 3ea	11ea	12 9	
	828-12	10 10ea	1 1ea	16 6	
	(20 exp) .. K135	15 6ea	1 10ea	24 0	
	(36 exp) .. K135	22 8ea	2 7ea	35 0	
	(20 exp) .. KA135	15 6ea	1 10ea	24 0	
	Kodablitz flashholder ..	31 0ea	7 8ea	53 8	
	carrying case	10 0ea	2 6ea	17 6	
	Kodalux L exposure meter ..	120 0ea	30 0ea	210 0	
Delete	Retinette camera IA f/3.5				
	Kolynos (655 ICC) super white dental cream	14 6	3 8	1 11	
	21 5	5 4	2 10		
	Kopertox (328 CCC) aerosol .. 6 oz	108 0	27 0	15 9	
	12 oz	164 0	41 0	23 11	
	Kreml (1113 S&B) hair tonic ..	36 2	18 1	5 7	
Delete	Kruschen (894 Nicholas) powder				
Delete	Lashique (385 DG) ..	42 0	21 0	7 0	
Delete	Lazitan (78 AS&Co) cream .. 2 oz	26 0	13 0	5 11	
Delete	Lectricshave (1113 S&B) 1 1/2 oz	15 6	7 9	2 5	
Delete	2 1/2 oz	26 4	13 2	4 1	
	Ledermycin (746 Lederle) capsules 150 mgm .. 16	25 6ea	..	38 3 TS	
	100	153 4ea	..	230 0 TS	
	1000	1480 6ea	..	2220 9 TS	
	drops .. 10 mls	6 6ea	..	9 9 TS	
	syrup .. 2 oz	9 6ea	..	14 3 TS	
	16 oz	68 8ea	..	103 0 TS	
	Lemon Delph (128 Biometica) freshener .. 4 oz	45 0	22 6	7 6	
	Lentheric (753 Lentheric) Red Lilac soap (3) ..			8 0	
	Levonor (502 Genatosan) tablets .. 30	40 0 ..	..	5 0	†s4B
	250	282 0 ..	..	35 3	†s4B
	Lights Up (385 DG) hair lightener ..	45 0	22 6	7 6	
	Lion (995 Potter's) cleansing herbs ..	12 0	3 0	2 0	
	LiquiSprayer R (766 Liquinure) 33 0ea	..	..	49 6	
	London Club (296 Colmo) hair tonic cream ..	39 0	19 6	6 6	
	Loxene (563 Hampshire) shampoo .. 2 oz	16 5	4 1	2 3	
	6 oz	31 0	7 7 1/2	4 3	
	Lucifen (1310 WW) tablets .. 50	84 0	21 0		
	500	57 6ea	14 4 1/2		
	Luma (779 Luma) compound ..	17 0	4 3	2 6	
	56 6	9 1 1/2	5 6		
	55 6	13 10 1/2	8 9		
	Lusty's (781 Lusty's) digestive tablets .. 100	33 0	7 10	4 9	
	herbal skin cream tube	14 0	6 8	2 4	
	tablets special .. 100	33 0	7 10	4 9	
	lemon hand cream tube	13 0	6 2	2 0	
	pilewort ointment tube	14 6	3 6	2 1	
Delete	Lutocyclin (262 CIBA) ampoules 5 mgm 1 mil all sizes				
Delete	10 mgm 1 mil 3, 25, 50 & 100				
Delete	25 mgm 1 mil 3, 25, 50 & 100				
Delete	rubber capped vials 10 mls				
Delete	implants 100 mgm				
Delete	Linguets 5 mgm 500 & 1000				
Delete	10 mgm 500 & 1000				
Delete	25 mgm 1000				
Delete	tablets all strengths and sizes				
	Lutormone (208 BW) vet tablets 1500 iu .. 10	495 0 ..	..	55 0	
Delete	Macleans (303 County) solid dentifrice chlorophyll				
	Magicur (1113 S&B) capsules ..	4 8	2 4	8 1/2	
	liquid ..	12 11	6 5 1/2	2 0	
	Majeptil (971 PSMB) tablets 1 mgm .. 50	90 0	22 6	13 1 1/2	pls4B
	250	360 0	90 0	52 6	pls4B
	5 mgm .. 50	260 0	65 0	37 11	pls4B
	250	1040 0ea	260 0ea	161 8	pls4B
Delete	Mainex (328 CCC) dairy cream				
	Mamex (328 CCC) udder cream .. 8 oz	48 0 ..	..	6 0	
	Mansil (786 Macdonald) cotton wool hospital .. 1 oz	5 5 ..	..	
	2 oz	8 8 ..	..	
	4 oz	14 7 ..	..	
	8 oz	25 5 ..	..	
	16 oz	46 3 ..	..	
	Man-Tan (1076 Rolls) small ..	45 0	22 0	7 6	
	large ..	90 0	44 0	15 0	
	Margo's (798 Margolis) baby powder ..	8 0	2 0	1 3	
	12 6	3 1 1/2	2 0		
	hand cream ..	6 6	3 3	1 3	
	hair lacquer aerosol ..	27 6	13 6	4 11	
	spray bottle ..	11 0	5 6	2 0	
	refill sachet ..	3 6	1 9	1 0	
	petroleum jelly ..	9 0 ..	..	1 0	
	18 0 ..	..	..	2 0	
	razor blades blue .. 25	31 8	7 11	1 6	
	(1000)	(1000)			
	shampoo				
	egg & lanolin sachet	21 0	5 3	4	
	gross	gross			
	twin pack sachet	41 0	10 3	7	
	gross	gross			
	bottle .. 4 oz	9 0	2 3	1 6	
	medicated				
	twin pack sachet	41 0	10 3	7	
	gross	gross			
	bottle .. 4 oz	9 0	2 3	1 6	
	talcum powder				
	bouquet of flowers, honeysuckle, lily of the				

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	Progestin (917 Organon)	ampoules, 5 mgm/ml	25	18	2ea	..	27	3		
Delete		10 mgm/ml	25	23	0ea	..	34	6		
Delete		vial, 5 mils	..	..	..	..	..	..
Delete		25 mgm/ml	..	25	36	8ea	..	55	0	
	Promol (1013 Promedico)									
	air purifiers	..	..	4	0	..	..	6		
	Pronel (451 F&J)	..	..	72	0	18	0	10	6	
Delete	Protandren (262 CIBA)									
	Linguets all sizes									
	Protopest (208 BW)									
	vet 100 mils	..	6	216	0	..	..	24	0	
	Pycamisan (1154 S & N)									
	BD cachets 240	..	..	480	0	..	..	60	0	TS
	480	..	..	906	0	..	..	113	3	TS
	Pygmia (328 CCC)	25 mils	..	172	0	..	..	21	6	
	Quadrin (215 BL)									
	tablets	..	18	25	6	6	4½	3	9	
	Quix (325 Crosfields)									
	giant	..	..	280	0	..	..	3	0	
	Quosh (103 BF)	..	..	28	8	..	..	3	3	
	Quota (1021 QO)									
	slimming diet	..	8 oz	..	..	..	..	7	6	
	Racasan (1022 Racasan)									
	air freshener aerosol	..	..	33	9	..	..	3	9	
	mothproof aerosol	..	5 oz	33	9	..	..	3	9	
	spot remover aerosol	..	5 oz	33	9	..	..	3	9	
	Rectone (1102 Sanitas)									
	ointment	..	..	32	2	8	1	4	3	
	suppositories	..	10	47	5	11	10	6	3	
	Redux (1013 Promedico)									
	reducing herbal tea	..	..	25	0	12	6	3	8	
	Remington (1044 RR)									
	shaver Roll-a-Matic	..	..	..	..	..	..	185	0	
	Rheumalene (781 Lusty's)									
	balm	..	..	18	0	4	3	2	7	
	Roberts Windsor (1070 Windsor)									
	bath crystals	..	1118	23	0	11	2½	3	9	
	talcum powder	..	1115	17	11	8	9	2	11	
Delete	Robinaide (285 Colman)	sachet	..	11	4gross	..	..	1		
Delete	Roboleine (912 O)	..	..	11	2ea	..	..	16	0	
	Rodine (573 TH)									
	warfarin powder	..	..	20	0	..	..	2	6	
	Rogitine (262 CIBA)									
Delete	ampoules 5 mgm/ml	25	..	..	..	..	..	..	..
Delete	Rolleicord (637 Hunter)	with f/3-5 Xenar lens								
	Rolleiflash (637 Hunter)	flashgun								
	sizes 1, 2 and 3	..	..	102	6ca	25	0ea	178	10	
	Rolleiflex (637 Hunter)	camera								
	with f/2-8F Zeiss Planar lens	..	..	1780	6ea	434	0ea	3104	9	
	with f/2-8 Xenotar lens	..	..	1659	4ea	404	6ea	2893	6	
	ever ready case	..	..	82	6ea	20	2ea	144	1	
	with 3-5F Planar lens and									
	coupled meter	..	..	1536	6ea	374	5ea	2679	2	
	with 3-5F Xenotar lens and									
	coupled meter	..	..	1411	4ea	244	0ea	2461	0	
	with "T" Tessar f/3-5 lens	..	..	1007	6ea	245	7ea	1756	10	
	with meter	..	..	1181	0ea	287	10ea	2059	4	
	meter	..	..	173	10ea	42	4ea	303	1	
	with 4 x 4 f/3-5 Xenar lens	..	..	547	0ea	135	11ea	972	5	
	ever-ready case	..	..	42	4ea	10	4ea	73	10	
	soft leather case	..	..	41	4ea	10	1ea	72	1	
	Rolleiflex-Tele (637 Hunter)	camera								
	with f/4 Sonnar lens	..	..	2070	0ea	504	7ea	3609	7	
	ever-ready case	..	..	99	10ea	24	4ea	174	1	
	meter	..	..	173	10ea	42	4ea	303	1	
	Roman Holiday (150 Bourjois)									
	bath cubes (6)	..9304	..	27	2	13	7	4	9	
Delete	Ross (1084 Ross)									
	entry 1125/3									
	Ross (1084 Ross)									
	binoculars									
	Stepmur 10 x 50	..	..	..	..	..	..	1023	11	
	Stepsun 12 x 50	..	..	..	..	..	..	1041	5	
	Tropical 7 x 40	..	..	..	..	..	..	970	10	
	10 x 50	..	..	..	..	..	..	1131	9	
	micro-projection attachment	..	..	..	..	..	..	350	0	
	mobile collapsible stand	..	..	..	..	..	..	371	0	
Delete	Ruaka (1307 Waterhouse)									
	Rutin-T (1366 Rutin)	..	..	53	4	13	4	7	10	
				104	1	25	4	14	9	
	Rutivite (1366 Rutin)									
	tablets	..	..	53	4	13	4	7	10	
	Rybaferin (1091 Rybar)									
	liquid	..	8 oz	24	0	6	0	3	6	†
		dp	80 oz	18	6ea	..	..	†
	tablets	..	75	24	0	6	0	3	6	†
		dp	500	10	0ea	..	..	†
		dp	1000	17	0ea	..	..	†
	Rymel (1091 Rybar)									
		4 oz	..	17	0	4	6	2	6	
		dp	20 oz	68	0	..	..	..	..
		dp	80 oz	21	10ea	..	..	..	..
	Sallycylamide (1305 WB)	tablets 0-5 gm	..	100	72	0	..	..	9	0
			..	500	252	0	..	..	31	6
			..	1000	480	0	..	..	60	0
	Saluric (837 MSD)									
	tablets 0-5 gm	..	100	35	0ea	..	..	52	6	
			500	170	0ea	..	..	255	0	
	Samaritan (1232 T&R)									
	olive oil	..	2½ oz	8	9	..	..	..	..
			5 oz	14	0	..	..	..	..
			10 oz	24	0	..	..	..	..
			20 oz	47	0	..	..	..	..
Delete	Samona (1096 Samona)									
	tablets No. 2									
	Sanilav (671 Jeyes)									
	plastic pack	..	..	24	8	..	..	2	9	
	Satura (384 DG)									
	lipstick refill	..	..	39	0	19	6	6	6	
	moisture cream	..	1 oz	51	0	25	6	8	6	
		..	2 oz	84	0	42	0	14	0	
		..	..	78	0	39	0	13	0	
	Savlon (649 ICI)									
	barrier cream 50 gm	..	..	17	0	4	3	2	6	
Delete	two-purpose barrier cream 50 gm									
	Scan (31 AP)									
	bottle	..	..	24	0	6	0	3	6	
	Scentinel (889 NH)									
	(distributors 816 Mayborn)									
	Quiff aerosol	..	..	33	0	..	..	3	9	
	Wham aerosol	..	..	33	0	..	..	3	9	
Delete	Scherk (128 Biometica)									
				7102						
	Schick (1115 SI)									
	home service kit	..	..	51	0	4	0	6	0	
	Scotties (153 BSC)									
	facial tissues	..	400	30	8	..	..	3	6	
	Septocin (195 Brook Parker)									
	cream No. 1	..	2 oz	30	0	..	..	..	..
	Serpasil (262 CIBA)									
Delete	tablets 0-1 mgm 25									
Delete	0-25 mgm 25									
	Sheer Elation (385 DG)									
	cream powder compact	..	..	59	0	29	6	9	9	
	face powder	..	..	45	0	22	6	7	6	
	Sheer Velvet (385 DG)									
	hand lotion	..	..	45	0	22	6	7	6	
	Silcot (786 Macdonald)									
	sanitary briefs chic	..	..	54	0	2	8	6	11	
	Silk 'n' satin (1113 S&B)									
	lotion	..	..	18	7	9	3½	2	10	
		..	..	10	10	5	5	1	8	
Delete	Sitvapiin (1030 Ravlka)									
	crude pine extract brown 4 oz.	1 lb	..							
	crude pine needle extract 16 oz	..	..	60	0	30	0	10	0	
	pine needle bath tablets	5	..	10	10	5	5	2	6	
				10 pkts	10 pkts					
	Simpkin's (1141 Simpkin)									
	peppermint rolls (rose)	..	..	3	0	..	..	4		
	Skeffron (1153 SKF)									
	beauty mask 8420	..	..	100	0	25	0	14	7	
Delete	Skin Deep (76 Atkinsons)									
	Skol (1113 S&B)									
	sun lotion	..	1 oz	13	11	3	5½	1	10	
		..	2 oz	20	10	5	2½	2	9	
		..	4 oz	34	1	8	6½	4	6	
	Smooth Touch (385 DG)									
	hand lotion	..	..	59	0	29	6	9	9	
	Sofra-Tulle (1087 Roussel)									
	dressings 4 in x 4 in	..	10	60	0	..	..	..	..
	strip 4 in x 40 in	..	..	60	0	..	..	..	..
	Solo (1159 Solo)									
	squashes and cordials	26 oz	..	25	0	..	..	2	6	
	Sooty (331 C of C)									
	shampoo	..	..	5	0	1	3	9		
	Sparine (1352 Wyeth)									
	Latabs	..	..	64	0	..	..	7	2	p1s4B
		..	250	53	9ea	..	..	71	8	p1s4B
	Sportsmaster (645 Ilford)									
	camera	..	..	318	6ea	79	Sea	569	8	
	case	..	..	35	9ea	9	5ea	64	5	
	Spratts (1175 SPL)									
	cereal cat food	..	..	7	6	..	..	10		
	dog cakes 4 x 7 lb	..	..	23	6case	..	..	7	3	
	mixed ovals	..	..	10	1	..	..	1	1	
		..	..	19	9	..	..	2	1	
		..	..	10	1	..	..	1	1	
Delete	ovals	..	..					
	puppy biscuits	..	..					
	Springtime in Paris (150 Bourjois)									
	bath cubes (6)	..9204	..	24	4	12	2	4	3	
	soap toilet (3)	..9206	..	31	0	7	9	4	6	
	talc	..9205	..	28	2	14	1	4	11	
	Sta-blond (1113 S&B)									
	shampoo powder	4	5	1	1½	7½		
	liquid	11	0					

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Order from THE CHEMIST AND DRUGGIST, 28 ESSEX STREET, LONDON, W.C.2

Delete	SteriShave (438 ER)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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Vick (1277 VI)	formula 44 cough linctus 4 oz	26	6	6	7½	3	6	†
Vigdor (299 CV)	after-shave lotion 9½ oz	100	0	48	9	16	9	
Vikelp (1113 S&B)	No. 1	15	11	3	11½	2	1	
	No. 2	31	10	7	11½	4	2	
	No. 3	61	3	15	3½	8	1	
Vinolia (955 Pepsodent)	soap toilet	7	9	1	10	11		
	bath	12	0	2	10	1	5	
Vioform (262 CIBA)	veterinary hydrocortisone lotion	40	0	..	..	5	0	TSVSO
Virugon (97 Bayer)	10 mils	..	..	..	..	..	..	..
	tablets	10	8ea	2	8ea	18	8	†
	500	105	8ea	26	5ea	184	11	†
Visa (Piguet (1201 Superyte)	perfume 4 oz	..	..	..	..	..	..	..
Vitalising (1286 VGC)	(distributors 1141 Simpkin)	..	..	..	..	..	..	..
	glucose tablets	4	6	..	..	6	..	..
Vitasun (206 BB)	.. rolls	44	0	..	..	5	6	..
Vitesso (359 DDD)	shampoo	6	10	1	9	1	0	..
Vosene (303 County)	shampoo sachet	4	4	1	1	7	..	..
	cream sachet	4	4	1	1	7	..	..
Vykmin (1113 S&B)	capsules	42	9	..	..	4	9	..
	..	78	9	..	..	8	9	..
	..	144	0	..	..	16	0	..
Wade's (1295 Wade)	salve	16	0	4	0	2	4	..
	1½ oz	32	0	8	0	4	6	..
	vaccination pads	4	6	..	..	7	..	..
Watersprite (1160 Solport)	face cloth G296	14	6	..	..	1	11	..
	G295	15	6	..	..	2	0	..
	G300E	16	0	..	..	2	0	..
Weetmeet (1175 SPL)	No. 1	10	1	..	..	1	1	..
	No. 2	10	1	..	..	1	1	..
Welgro (1403 Ulvin)	liquid manure concentrate	72	0	..	..	9	0	..
Wellcome (208 BW)	calcium borogluconate solution 40% (vet) 400 cc	45	4	..	..	5	8	..
Wendy (786 Macdonald)	pertussis vaccine 0.5 mils 3	80	0	..	..	10	0	..
	5 cc	63	0	..	..	7	0	..
	semen diluent (vet) 50 cc	405	0	..	..	45	0	VPO
	staphylococcus toxoid (vet) 100 cc	162	0	..	..	18	0	VPO
	swine erysipelas antiserum (vet) 100 cc	346	6	..	..	38	6	VPO
	250 cc	..	..	..	..	..	..	..
Wendy (786 Macdonald)	whooping cough vaccine all sizes	55	4	..	..	6	11	..
Wendy (786 Macdonald)	baby pants floral nylon N70	..	..	..	..	..	..	..
Wendy (786 Macdonald)	nylon film N30	..	..	..	..	..	..	..
Williams (1113 S&B)	luxury shaving cream	18	4	4	7	2	5	..
	shaving stick	22	8	5	8	2	11	..
	refill	11	0	2	9	1	5½	..
Winged Lion (995 Potter's)	compound herbs	12	0	3	0	2	0	..
Wyovin (1352 Wyeth)	tablets with phenobarbitone	57	0	..	..	6	4	†s1s4A
	50	216	0	..	..	24	0	†s1s4A
	250	..	..	..	..	..	..	..
Yestos (422 EGC)	irradiated puppy powder	38	0	..	..	4	0	..
	8 oz	12	0	..	..	1	6	..
	veterinary yeast tablets 100	77	0	..	..	8	6	..
	1006	15	0ea	..	..	20	0	..
	2500	..	..	..	..	..	..	..
Yestos E (422 EGC)	veterinary yeast tablets	32	0	4	0	..
	75	80	0	10	0	..
	250	25	0ea	37	6	..
	1000

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THIS WEEK'S CHANGES

NEW and altered entries notified for the first time.

A=Advanced. R=Reduced.

Entries new this week are marked thus:—●

Astral (509 Gibbs)	cream	9	9	4	9	1	6	..
	..	16	0	7	9½	2	6	..
	..	28	6	13	10½	4	6	..
	soap toilet	9	0	2	2½	1	1	..
	bath	13	0	3	2	1	7	..
Benevit (588 H&H) tonie	..	28	6	7	0	3	9	..
Bitevan (436 Evans)	ampoules 50 megm 10 mils	30	0	..	..	3	4	..
	100 megm 1 mil 6	30	0	..	..	3	4	..
	10 mils	34	6	..	..	3	10	..
	1000 megm 1 mil 3	48	0	..	..	5	4	..
	10 mils	144	0	..	..	16	0	..
Corr. Carbomucil (896 NPP) .. 4 oz	..	36	0	9	0	4	9	..
Decadron (837 MSD)	injection vial 2 mils	21	0ea	..	..	31	6	TS
Diajubes (588 H & H) C1	..	14	0	..	..	1	7	..
Dindevan (436 Evans)	tablets 10 mgm	100	120	0	..	15	0	..
	..	500	468	0	..	58	6	..
	50 mgm	25	66	0	..	8	3	..
	..	100	216	0	..	27	0	..
	1000	1404	0	..	..	175	6	..
Distaval (378 DCBL)	suspension 60 mils	3	0ea	..	..	4	6	p1s4B
Framygen (502 Genatosan)	sterile powder 500 mgm	17	0ea	..	..	25	6	TS
	tablets 500 mgm	20	75	0ea	..	112	6	TS
	..	100	290	0ea	..	425	0	TS
Gordon Moore (528 GM)	cosmetic toothpaste small	14	5	3	7½	1	11	..
Heath & Heather (588 H&H)	cigarettes herbal arabian 10	9	6	2	6	1	3	..
	..	20	16	6	4	0	2	2
	..	50	33	6	8	6	4	5
	..	100	62	0	15	6	8	3
A smoking mixture herbal	..	64	11	0	..	1	3	..
A Vi-tablets	..	21	0	5	0	3	0	..
	..	38	6	9	6	5	7	..
A Heatherclean (588 H&H)	..	8	0	2	0	1	3	..
	..	19	0	5	0	2	10	..
A Herboloc (588 H&H)	disinfectant	17	0	4	0	2	3	..
Hexopal (97 Bayer)	tablets 500 mgm	41	4ea	..	..	62	0	..
A Less (528 GM) toothpaste	..	14	5	3	7½	1	11	..
Marevan (436 Evans)	tablets 1 mgm	96	0	..	..	12	0	..
	10 mgm	288	0	..	..	36	0	..
Margo's (798 Margolis)	bath eubes floral	17	0	8	6	3	..	..
	gross	..	..	..	..	..	..	..
Max (855 Mondart)	insect repellent	30	0	7	4	3	11	..
Medic (942 Passmill)	toilet rolls double	9	0	..	..	1	3	..
A Mus-Gar (588 H&H) ointment	..	16	6	4	0	2	5	..
	..	32	6	8	0	4	9	..
A Odol (314 Cranbux) toothpaste	..	14	5	3	7½	1	11	..

You may now telephone your Classified Advertisement.

Ring CEN 6565 by 4 p.m. Tuesday for same week, subject to space being available.

Parke-Davis (938 PD)									
Delete	shaving cream tube 1½ oz								
A	P.L.J. (103 BF) large	44	5	..	..			4	9
Ponds (256 CPL)									
A	cold cream .. jar	11	0	5	6			1	9
A	face powder .. small	11	0	5	6			1	9
A	freshener pads .. tin	11	0	5	6			1	9
A	vanishing cream .. jar	11	0	5	6			1	9
Delete	lipsticks medium swivel								
Delete	large refills								
Delete	tissues								
A	Punch and Judy (528 GM)								
	toothpaste ..	14	5	3	7½			1	11
A	Pen (267 C&A)								
	aeriflavine and Clearlight	10	0	..	..			1	3
	iodine and mosquito ..	10	0	2	6			1	6
Rentokil (1047 Rentokil)									
●	aerosol .. 6 oz	..	..	..	..			5	0
Riddofan (1059 Riddell)									
A	inhaler ..	158	6	..	..			22	0
	case ..	43	0	..	..			8	11
A	Scarfe (588 H&H)								
	herbal cigarettes .. 20	19	6	..	..			2	2
Delete	Selmo (588 H&H) biscuits								
Stephens (1411 Stephens)									
●	tar remover tube ..	20	0	..	..			2	6
R	Trescatyl (971 PSMB)								
	powder 2 gm ..	70	0	..	..			8	9
	tablets 250 mgm .. 50	36	Sea	..	..			55	0
	250	178	4ea	..	..			267	6
Vacco (1265 Vacco)									
●	vacuum flask-de-luxe VLP	73	6	9	0			8	11
Vaseline (256 CPL)									
	petroleum jelly								

A	yellow ..	1 lb	41	4	10	4		5	6
A	7 lb	165	0	..	..	..
A	white ..	1 lb	50	8	12	8		6	9
A	7 lb	210	0	..	..	..
Vosol (369 DL)									
●	ear drops 15 mils	..	67	0	17	0		9	10
Whip (933 PLG)									
●	after shave lotion ..	..	6	10ea	3	5ea		14	3
			18	0ea	9	0ea		39	8
Wright-Fleming (1393 BRL)									
antigens									
●	diphtheria-pertussis								
	prophylactic 3 × ½ mil	4	3ea	..	..		
	5 mils	7	6ea	..	..		
●	diphtheria-tetanus								
	prophylactic ½ mil	1	10½ea	..	..		
	3 × ½ mil	3	4½ea	..	..		
	5 mils	7	10½ea	..	..		
●	pertussis .. ½ mil	1	10½ea	..	..		
	3 × ½ mil	4	3ea	..	..		
	5 mils	7	6ea	..	..		
●	tetanus toxoid 2 × ½ mil	3	9ea				
	5 mils	7	1½ea				
Wright's (1351 WLU)									
A	lysol BP 4 oz	9	9		1	4
Delete	8 oz								P2

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(193 Brobat)=BROBAT, LTD., 52 Wandle Bank, London, S.W.19.
Liberty S131.
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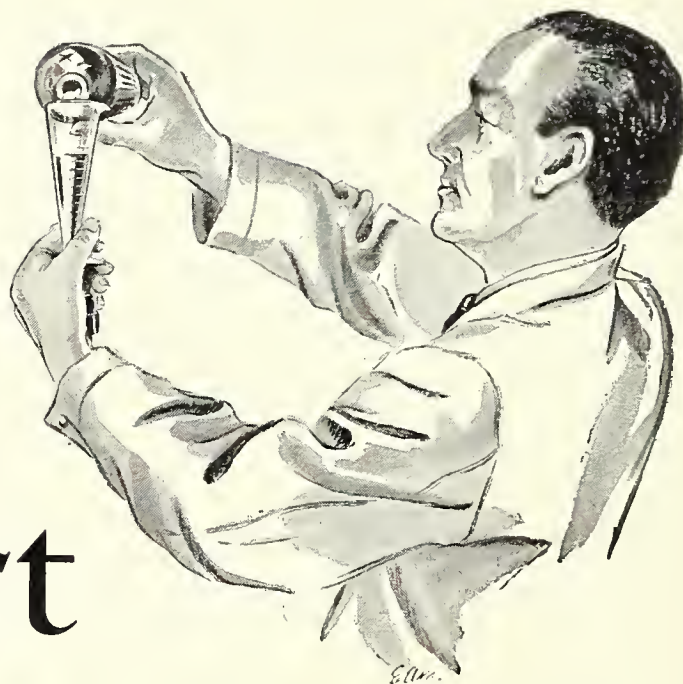
The
CHEMIST AND DRUGGIST

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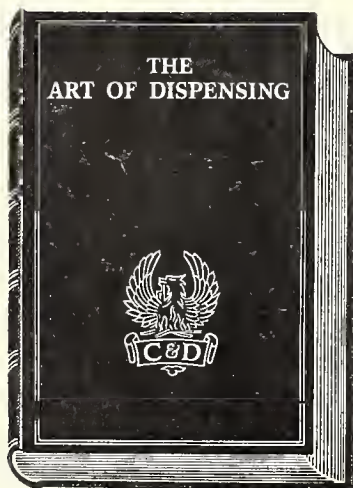
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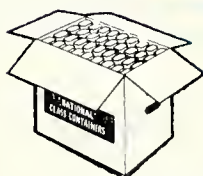
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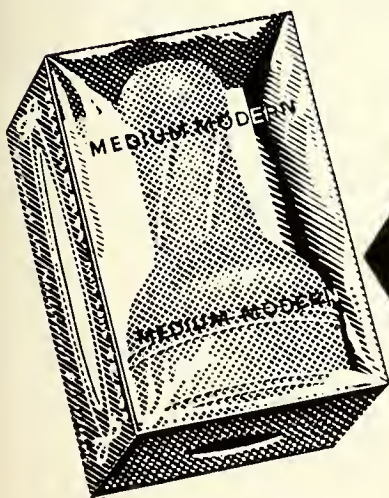
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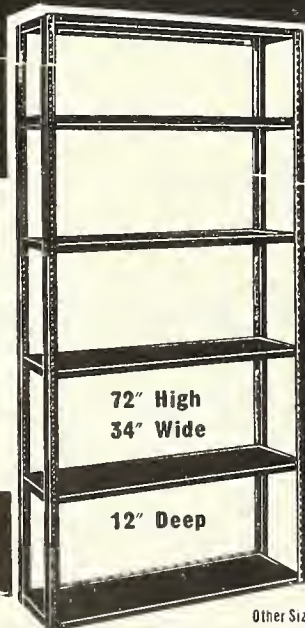


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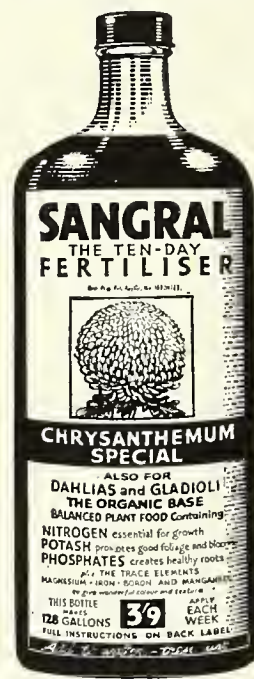
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ROLLEI-Magic—the latest addition to the range of ROLLEI Cameras—it automatically gives correct exposure and a preview of the final picture; full negative size and in full colour.

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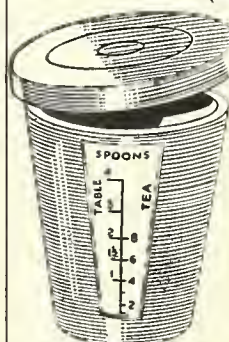
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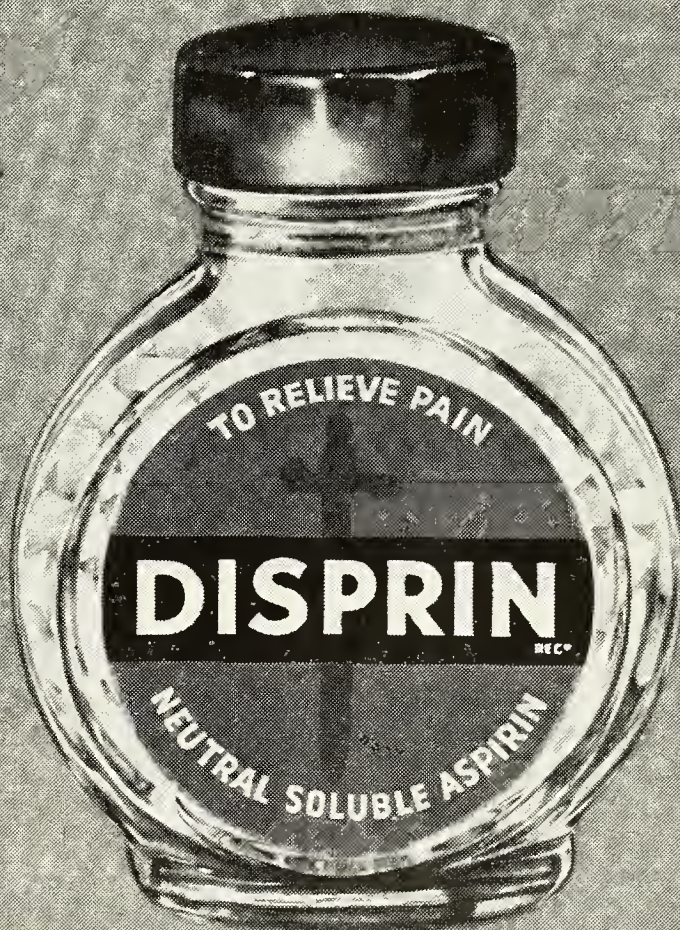


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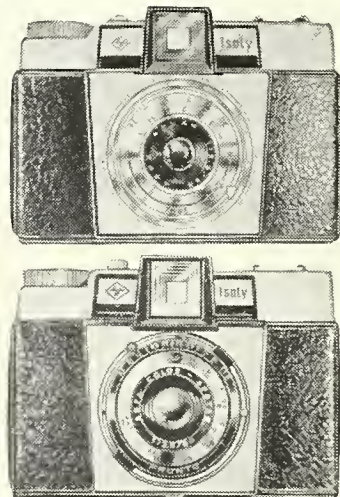
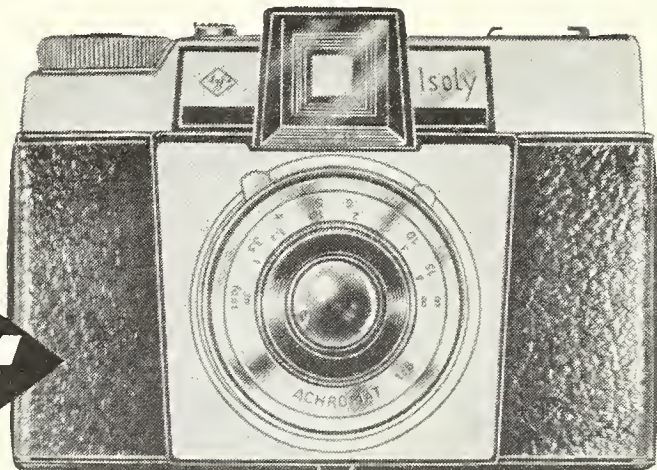
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INTERNATIONAL cosmetic, toiletry, pharmaceutical company wishes to purchase a company with established products selling to chemist outlets. With sales force, with or without manufacturing facilities. Strictest confidence essential. Box C 6500.

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Senior Pharmacist

for Bethnal Green Hospital. Modern department approved for training students. Salary scale £770—£1,010 p.a. plus higher qualification allowance and London Weighting. Please apply to the Group Secretary, 213 Kingsland Road, London, E.2. C 553

ANCOATS HOSPITAL, MANCHESTER, 4

Pharmacist

Applications are invited for the above post at Ancoats Hospital. Salary and conditions of service in accordance with Whitley Council scales.

Applications, stating age, experience and names of two referees, should be sent to the General Superintendent (Dept. C.), as soon as possible. C 6526

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Pharmacist

required in this modern and well-equipped pharmacy (category V Hospital). Barnet is terminal of Northern Line (London Transport). Whitley Council salary scale with London Weighting. Applications to Hospital Secretary (Phone: Barnet 7421), with names of two referees. C 6365

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Pharmacist or Assistant-in-Dispensing

There will be a vacancy for a Pharmacist or Assistant-in-Dispensing to take up duties on 1st July. The salary scale for the former is dependent upon length of experience and is on the scale £690—£920 per annum; for the latter it is £250 at 18, £425 at 22 or over, rising to £575. £50 additional is paid for certain qualifications. Apply in writing to Secretary, Bootle Hospital, Liverpool, 20, giving details of qualifications, experience, age and names of two referees, by 31st May. C 6555

BURTON-ON-TRENT HOSPITAL MANAGEMENT COMMITTEE, ANDRESSEY HOSPITAL

Assistants-in-Dispensing

Applications invited from persons qualified as Assistants-in-Dispensing, for a vacant post in the Pharmacy at Andressey Hospital, under the supervision of the Group Pharmacist who is based at the General Hospital.

Salary at age 22 years or over £395 rising to £535 plus £50 for qualification allowance—member of Apothecaries' Hall, Whitley Council conditions of service.

Applications with the names of two referees to: S. D. Evans, Group Secretary, The General Hospital, Burton-on-Trent. C 6518

DULWICH HOSPITAL, EAST DULWICH GROVE, S.E.22

Locum Assistant-in-Dispensing

required June 3 to June 15 and/or June 24 to June 29. Apply Chief Pharmacist. C 6547

CENTRAL GROUP HOSPITAL MANAGEMENT COMMITTEE

Locum Pharmacist

Holiday relief vacancies:—

12th—24th June, 1961

Salary 18 guineas p.w. Applications with full details to Chief Pharmacist, Metropolitan Hospital, London, E.8. C 561

EAST HAM MEMORIAL HOSPITAL,

SHREWSBURY ROAD, E.7

Assistant-in-Dispensing

Salary scale £425-£575 p.a. plus £50 p.a. allowance if suitably qualified, plus London Weighting £20/£30 p.a. Part-time applicants considered. Full details from Chief Pharmacist (Tel.: GRA. 3322). Apply to Hospital Secretary. C 6546

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FOREST GROUP H.M.C., LANGTHORNE ROAD, E.11

Assistant-in-Dispensing

required for group pharmacy at Connaught Hospital, Walthamstow, E.17, with occasional relief duties at other Hospitals. Hospital experience or Hall Certificate an advantage. Whitley Council terms and conditions. Forms of application may be obtained from Secretary. C 6535

SHOTLEY BRIDGE GENERAL HOSPITAL, SHOTLEY BRIDGE, CONSETT, CO. DURHAM

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Applications are invited for appointment of a Post-Graduate Student in Pharmacy at the above Hospital (Category IV). Salary £460 per annum. Accommodation can be provided in the Hospital, for which an appropriate deduction will be made.

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60 GROVE END ROAD,
LONDON, N.W.8****Locum Assistant-in-Dispensing**

Apothecary Hall dispenser required for three weeks from Tuesday, August 8, 1961. Whitley scale. Apply, Secretary. Cunningham 5126.

C 3637

**LONDON CHEST HOSPITAL,
VICTORIA PARK, E.2****Locum Pharmacist**

required for a period of 8 weeks as from 22nd May. Salary in accordance with the Whitley Council Scales.

Apply to the House Governor, London Chest Hospital, Victoria Park, London, E.2. C 6524

**NEASDEN HOSPITAL,
(207 beds)****BRENTFIELD ROAD, N.W.10****Chief Pharmacist (Category II),**

to commence as soon as possible. Applications to Physician Superintendent. C 6544

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GRAY'S INN ROAD, W.C.1****Assistant-in-Dispensing**

required to assist with the supply of drugs to Branch Hospitals. Applicants must be 21 years or over. Salary in accordance with Whitley Scale ranging from £360 to £575 plus London Weighting and £50 qualification allowance. Applications with names of two referees should be addressed to the Group Chief Pharmacist. C 6541

**ST. GILES HOSPITAL,
CAMBERWELL, S.E.5****Assistant-in-Dispensing**

Vacancy exists. Apply, Chief Pharmacist. C 6533

**SPRINGFIELD HOSPITAL,
LONDON, S.W.17****Part-time Pharmacist**

required. Salary 38s. 8d. per session of four hours, up to a maximum of six sessions per week.

Applications to the Group Secretary, Springfield Hospital, Beecheroff Road, London, S.W.17, giving age, qualifications, details of experience and names of two referees. C 562

**ST. JOHN'S HOSPITAL,
MORDEN HILL, S.E.13****Locum Pharmacist**

required for three weeks from June 5. Salary £18 18s. per week. Apply to Chief Pharmacist. C 6511

**UPTON HOSPITAL,
SLOUGH****Locum Senior Pharmacist**

required. Salary £18 18s. per 39-hour week, or pro rata to hours worked. Applications stating age, qualifications and experience to Secretary. C 6516

**ST. STEPHEN'S HOSPITAL,
FULHAM ROAD, S.W.10****Locum Tenens Pharmacist**

required. Eighteen guineas weekly. Apply immediately to Chief Pharmacist. C 6514

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SLOUGH****Senior Pharmacist**

required at this General Hospital. Applications stating age, qualifications and experience to Secretary. C 6517

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QUALIFIED LADY DISPENSER required for group practice of four doctors to assist present dispenser with dispensing and general practice management. Details from Dr. T. E. Ormerod, 52 Linden Avenue, Kettering, Northants. Tel.: Kettering 2104. C 3653

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BANSTEAD, SURREY. Lady assistant required for senior position for counter, display and general duties. No dispensing. Must be able to control staff and buy stock. All main cosmetic agencies. Good wages and yearly bonus to right person. Holiday arrangements honoured. Overall supplied. Modern shop. Apply stating when available for interview with usual details to Mr. Woollatt, 30 High Street, Banstead (Phone: Burgh Heath 720 daytime) Burgh Heath 2024 evenings or Sundays. C 3614

COBHAM, SURREY. Young married pharmacist required to manage modern pharmacy. Excellent living accommodation, rent and rates free. Good salary, plus commission. Superannuation scheme available. Holiday commitments for this summer honoured. Apply, W. A. F. Pollard, Midtrees, Empress Avenue, Farnborough, Hants. C 3656

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A Relief Branch Manager Pharmacist required for a permanent position with the Society. Excellent conditions. Applications, in writing, stating full details of age, experience and salary required to the:

**Personnel Manager,
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C 3646

READING. A vacancy occurs at our Coronation Square branch for a manager. Three-bed-roomed maisonette and garage available rent free. Three weeks' holiday, commitments honoured. Apply Williams the Chemists, 277 Basingstoke Road, Reading. Phone: Reading 82238. C 3610

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Salary approximately £38 per week plus £8 per month. Accommodation provided at moderate rental or in the case of a single person, board and residence provided at a Guest House for £6 10s. per week.

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C 3647

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wish to appoint a Deputy to the Manager of the Pharmaceutical Development Laboratory concerned with the formulation of new products. The candidate should possess a pharmaceutical qualification and have had experience in production or preferably development work. The position offers excellent prospects to the right person and the Company have many employment benefits. The appointment will be in the North-east until about October of this year when all activities of the Company will be transferred to new laboratories in Kent. Please reply, giving full details of age, education and career to date, to:

**The Secretary,
Reference H.L.,
ABBOTT LABORATORIES, LTD.,
Bede Trading Estate,
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Co. Durham.**

C 6456

AN OPPORTUNITY

... to utilise and develop the specialised knowledge and skills of modern pharmaceutical training. There is a vacancy in the Parke-Davis Medical Service Department for a MALE PHARMACIST, aged 25-30. He will handle a wide range of technical and medical queries; assist in developing medical literature; subsequently contribute to the training of medical representatives. Applicants should have a keen interest in pharmacology and therapeutics. Salary will be commensurate with age, qualifications and experience and will be progressive. Five-day week. Superannuation Scheme. Staff Restaurant. Write in the first instance for an

Application Form to:

**Mr. A. L. Glover,
Personnel Manager,
Parke, Davis & Company,
Staines Road,
Hounslow, Middlesex**

C 6520



BURROUGHS WELLCOME & CO. invite applications from pharmacists for a post in production at the Wellcome Chemical Works, Dartford. Duties will include supervision of teams of girl operatives as well as the manufacture of some pharmaceutical preparations. It would offer a good opportunity for a recently qualified pharmacist wishing to enter industry. The salary paid will be in accordance with qualifications and experience. Applications should be made in writing to the:

**Personnel Manager,
The Wellcome Chemical Works,
Dartford, Kent.**

C 6549

EVANS MEDICAL (NORTHERN) LTD. wish to appoint an assistant to the sales manager. Applicants, under 30, and with experience of wholesale or retail pharmacy in the North-east, should send full details to the Managing Director, Evans Medical (Northern) Ltd., 21 Liddell Terrace, Gateshead, 8, co. Durham. C 6554

Situations Vacant—Continued

EXECUTIVE with intimate knowledge buying and selling pharmaceutical chemicals or essential oils, required by well-known London company to establish new department. Opportunity for investment and eventual promotion to Board. Replies in confidence to Box C 6392.

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Sales Manager,
The D.D.D. Group of Companies,
Rickmansworth Road,
Watford, Herts

C 6545

MALE CLERK with knowledge of pharmaceuticals required for a position of responsibility by London distributing house. Please write giving particulars of age, experience and salary required, to Box C 6513.

MANAGER for expanding and progressive chemists' wholesale house, E.C.1 area. Near Old Street Station. Must be active with initiative. Thorough knowledge of goods. Experienced in checking and staff control. Salary £1,000 per annum. Phone: CLE 5081 or Box C 3648.

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PHARMACEUTICAL ANALYST. We are looking for a pharmacist or chemist capable of carrying out both routine and specialised analyses on a wide range of materials and products. Previous experience of pharmaceutical analysis is called for together with the ability to work in close liaison with the production departments. Written applications giving details of experience and qualifications, together with some indication of expected salary, should be addressed to The Chief Chemist, Bob Martin Limited, Southport, Lincs. C 3624

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C 6543

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C 6550

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C 6551

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C 438

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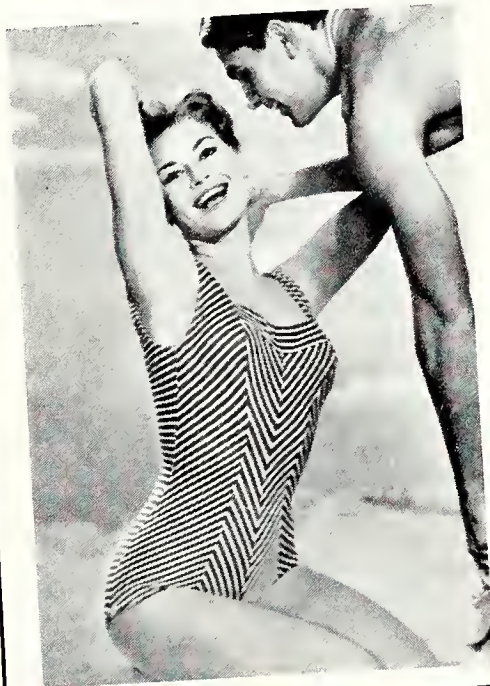
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